

ITEMIZED PROPOSAL WITH
SPECIAL PROVISIONS

BALDWIN HILL ROAD SOUTH PAVING AND RELATED WORK

BALDWIN HILL ROAD
EGREMONT, MA



THIS PROPOSAL TO BE OPENED AND READ ON:
FRIDAY, JUNE 22, 2018 AT 2:00 PM

AT THE OFFICE OF:
**BOARD OF SELECTMEN
EGREMONT TOWN OFFICES
171 EGREMONT PLAIN ROAD (ROUTE 71)
EGREMONT, MA**

PRE-BID CONFERENCE ON:
**THURSDAY, JUNE 14, 2018 AT 2:00 PM (AT HIGHWAY DEPT.: DRIVEWAY BEHIND TOWN HALL, 171
EGREMONT PLAIN ROAD, EGREMONT, MA)**

SUBMIT PROPOSAL IN SEALED ENVELOPE MARKED
"BALDWIN HILL ROAD SOUTH PAVING AND RELATED WORK"

PREPARED BY: ***FORESIGHT LAND SERVICES, INC.***
*1496 WEST HOUSATONIC STREET
PITTSFIELD, MA 01201*

TOWN OF EGREMONT, MA
INVITATION TO BID

The Town of Egremont, acting through its Board of Selectmen, invites sealed bids from contractors approved by the Massachusetts Department of Transportation for the Baldwin Hill Road South Paving and Related Work project. Plans and specifications are available electronically starting May 30, 2018 at 2pm by email request with company name, address, and phone number included to: tegremont@egremont-ma.gov. Hard copies available at the Town Hall Board of Selectmen's office, 171 Egremont Plain Road (Route 71), Egremont, MA, with a payment of \$25.00 by check (company, cashiers or certified) payable to the Town of Egremont for each set, refundable if plans and specifications are returned unmarked within fourteen (14) calendar days after the bid opening. An additional SEPARATE payment of \$20.00, non-refundable, is required if postal delivery is necessary. Checks shall be payable to the Town of Egremont. Transmissions will not be faxed.

The work to be performed includes paving and related work. All applicable federal, state and local laws, regulations and rules shall be observed.

Sealed bids from General Contractors, submitted on the proper forms and clearly marked **"Baldwin Hill Road South Paving and Related Work"** shall be received at the Board of Selectmen's Office, 171 Egremont Plain Road (Route 71), Egremont (or via mail to PO Box 368, South Egremont, MA 01258) until 2:00pm Friday, June 22, 2018, at which time they will be publicly opened and read aloud. See itemized proposal with special provisions for additional submittal requirements.

There will be a Pre-bid Conference at 2:00pm on June 14, 2018, at the Egremont Highway Department, 171 Egremont Plain Road, Egremont, MA.

Only prospective bidders who are prequalified for this project by MassDOT will be entitled to bid on this project. The estimated project value to be included on the pre-qualification form is \$290,000.

The Bid Guaranty from each General Contractor shall be in the form of cash bid bond, certified check, Treasurer's or Cashier's check, drawn upon a responsible bank or trust company doing business in the Commonwealth of Massachusetts and shall be made payable to the Town of Egremont. The Bid Guaranty shall be five percent (5%) of the bid amount for General Contractors.

The work under this contract shall be subject to the provisions of Chapter 30, Section 39M of the Massachusetts General Laws. Wages are subject to Massachusetts's minimum wage rates as required by M.G.L. Chapter 149, Sections 26 to 27D, inclusive. The contractor must certify that he shall not discriminate against any qualified employee or applicant for employment because of race, color, national origin, ancestry, age, sex, religion, or physical or mental handicap. The Contractor must agree to comply with all applicable Federal, State and Local statutes, rules and regulations, prohibiting discrimination in employment.

A one hundred percent (100%) Performance Bond and a one hundred percent (100%) Payment Bond with a surety company qualified to do business in the Commonwealth of Massachusetts will be required of the successful bidder within 7 business days of Notice of Award.

Selection of the contractor will be based upon bidder qualifications including evidence of past performance in similar projects, bid price, and MassDOT prequalification. The Contract will be

awarded to the bidder deemed by the Awarding Authority to be the lowest responsible and eligible bidder.

The Town of Egremont reserves the right to accept or reject any and all bids, in whole or in part, to waive any informality in the bids received, and to accept the bid deemed to be most favorable to the best interest of the Town. The bidder agrees that its bid shall be good and not withdrawn for a period of thirty (30) days, Saturdays, Sundays, and legal holidays excluded, after the date of opening the bids.

The Town of Egremont is an equal opportunity employer and encourages minority and woman owned businesses to submit bids.

The Town of Egremont is a municipal corporation and is exempt from the payment of sales and compensating use taxes to the Commonwealth of Massachusetts on all materials, equipment and supplies sold to the Contractor pursuant to this contract, to the extent authorized by G.L.c. 64H, Section 6(f). These taxes are not to be included in the bid. Copies of the Owner's tax-exempt certificate will be available to the successful Bidder upon execution of the contract.

Questions during the Bid Phase should be directed to Foresight Land Services, Inc. (413) 499-1560.

Mary Brazie
Office Administrator
Town of Egremont
PO Box 368
South Egremont, MA 01258

LISTING OF PAY ITEMS

<u>#</u>	<u>ITEM</u>	<u>UNIT</u>
1	Unclassified Excavation	LS
2	Class B Rock Excavation	CY
3	Gravel Borrow for Base (Various Types) & Backfilling Pipes	CY
3-A	Crushed Stone for Pipe Bedding	CY
4	12" HDPE Drainage Pipe	LF
5	12" HDPE Flared End Section with Stone Discharge Apron	EACH
6	Adjust Structure	EACH
7	Remodel Structure	EACH
8	Rebuild Structure	VF
9	Precast Concrete Catch Basin with Frame & Grate	EACH
10	Precast Concrete Catch Basin with Frame & Grate (Reduced Size)	EACH
11	Precast Concrete Catch Basin with Frame & Grate – Type DF	EACH
12	Dense Grade Crushed Stone Shoulders	CY
13	Pavement Reclamation with Calcium Chloride	SY
14	Crushed Stone for Blending	TON
15	Asphalt Emulsion for Tack Coat	GAL
16	Hot Mix Asphalt Binder Course	TON
17	Hot Mix Asphalt Shim Course (1" Average)	TON
18	Hot Mix Asphalt Surface Course (1.5")	TON
19	Hot Mix Asphalt for Miscellaneous Work (Aprons)	TON
20	Hot Mix Asphalt Waterway	SY
21	Erosion, Sedimentation & Dust Control	LS
22	Safety Controls and Signage for Construction Operations	LS
23	Traffic Police Services (Police During Mobilization if Necessary)	ALLOW
24	Testing Services	ALLOW

BID PROPOSAL FORM

DEPARTMENT: Town of Egremont, Highway Department

PROJECT/JOB: Baldwin Hill Road South Paving & Related Work/E2617

BIDS DUE: Friday, June 22, 2018 @ 2:00pm
Egremont Town Offices
171 Egremont Plain Road (Route 71)
Egremont, MA

Mailing Address:
PO Box 368
South Egremont, MA 01258

All requested information in this form must be provided. The Bid Proposal Form Checklist must be completed and signed indicating you received and understand all requirements of this bid.

Specifications

Furnish all equipment, labor and materials necessary to carry out the Baldwin Hill Road South Paving & Related Work project as specified herein and under the direction of the Egremont Highway Department.

All work performed as described in these contract documents shall be paid for under one or more of the items listed on the Bid Form. All other activities required in connection with performance of the work, including all work required under the specifications, whether described in the documents or mandated by applicable codes, permits and laws, will not be separately paid for unless specifically provided for in the Bid Form, but will be considered incidental to performance of the overall project.

Coordination & Completion Date

Contractor shall coordinate operations specified herein with the Town officials.

The general requirements for this contract are as follows:

- * Begin Work: July 9, 2018 (weather dependent)
- * Final Completion: September 28, 2018

Contractor shall obtain any and all permits required for work within the town right-of-way. Any costs associated with these permits shall be considered incidental.

Work Hours

Work hours shall be Monday through Friday, 6:00am to 7:00pm (unless otherwise noted).

No work is allowed on Saturdays, Sundays or Legal Holidays and driveways shall be open completely to traffic on these days.

One lane of traffic shall be maintained at all times. Driveways shall be completely open to traffic

at all times. Contractor shall coordinate with Town and abutting residents.

Setup and removal of all equipment and materials for construction and/or traffic maintenance shall be done during the prescribed work hours. The roadway shall be free of the Contractor's personnel and operations during restricted hours.

Price Adjustment for Hot Mix Asphalt Mixtures

This provision applies to all projects using greater than 100 tons of hot mix asphalt (HMA) mixtures containing liquid asphalt cement as stipulated in the Notice to Contractors section of the bid documents.

The Price Adjustment will be based on the variance in price for the liquid asphalt component only from the Base Price to the Period Price. It shall not include transportation or other charges. This Price Adjustment will occur on a monthly basis.

Base Price

The Base Price of liquid asphalt on a project as listed in the Notice to Contractors section of the bid documents is a fixed price determined at the time of bid by the Department by using the same method as for the determination of the Period Price detailed below.

Period Price

Two sets of period prices will be posted each month on the MassDOT website at <http://www.massdot.state.ma.us/highway/Main.aspx>. They will be labeled "New Asphalt Period Price Method" and "Old Asphalt Period Price Method".

The base price shall be per MassDOT Price Adjustment for the most current month shown:

Price Period – 2018								
Adjustment Period	Liquid Asphalt		Diesel		Gasoline		Portland Cement	
	Ton	Megagram	Gallon	Liter	Gallon	Liter	Ton	Megagram
May	\$485.00	\$534.71	-	-	-	-	\$123.62	\$136.27
April	\$477.50	\$526.44	\$2.534	\$0.669	\$2.336	\$0.617	\$123.62	\$136.27
March	\$457.50	\$504.39	\$2.380	\$0.628	\$2.156	\$0.569	\$122.89	\$135.46

Source: <https://www.mass.gov/service-details/2018-massdot-contract-price-adjustments>

Date: 05-17-18 Time: 1:19pm

New Asphalt Period Price Method

The "New Asphalt Period Price Method" is for contracts bid after December 15, 2008 and will show the Period Price of liquid asphalt for each monthly period as determined by MassDOT using the average selling price per standard ton of PG64-28 paving grade (primary binder classification) asphalt, FOB manufacturer's terminal, as listed under the "East Coast Market - New England, Boston, Massachusetts area" section of the Poten & Partners, Inc. "Asphalt Weekly Monitor". This average selling price is listed in the issue having a publication date of the second Friday of the month and will be posted as the Period Price for that month. MassDOT will post this Period Price on this website within two (2) business days following their receipt of the

relevant issue of the "Asphalt Weekly Monitor". Poten and Partners has granted MassDOT the right to publish this specific asphalt price information sourced from the Asphalt Weekly Monitor.

The Contract Price of the hot mix asphalt mixture will be paid under the respective item in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the work has been performed, using the monthly period price for the month during which the work was performed.

The Price Adjustment applies only to the actual virgin liquid asphalt content in the mixture placed on the job in accordance with the Standard Specifications for Highways and Bridges, Division III, Section M3.11.03.

The Price Adjustment will be a separate payment item. It will be determined by multiplying the number of tons of hot mix asphalt mixtures placed during each monthly period times the liquid asphalt content percentage times the variance in price between Base Price and Period Price of liquid asphalt.

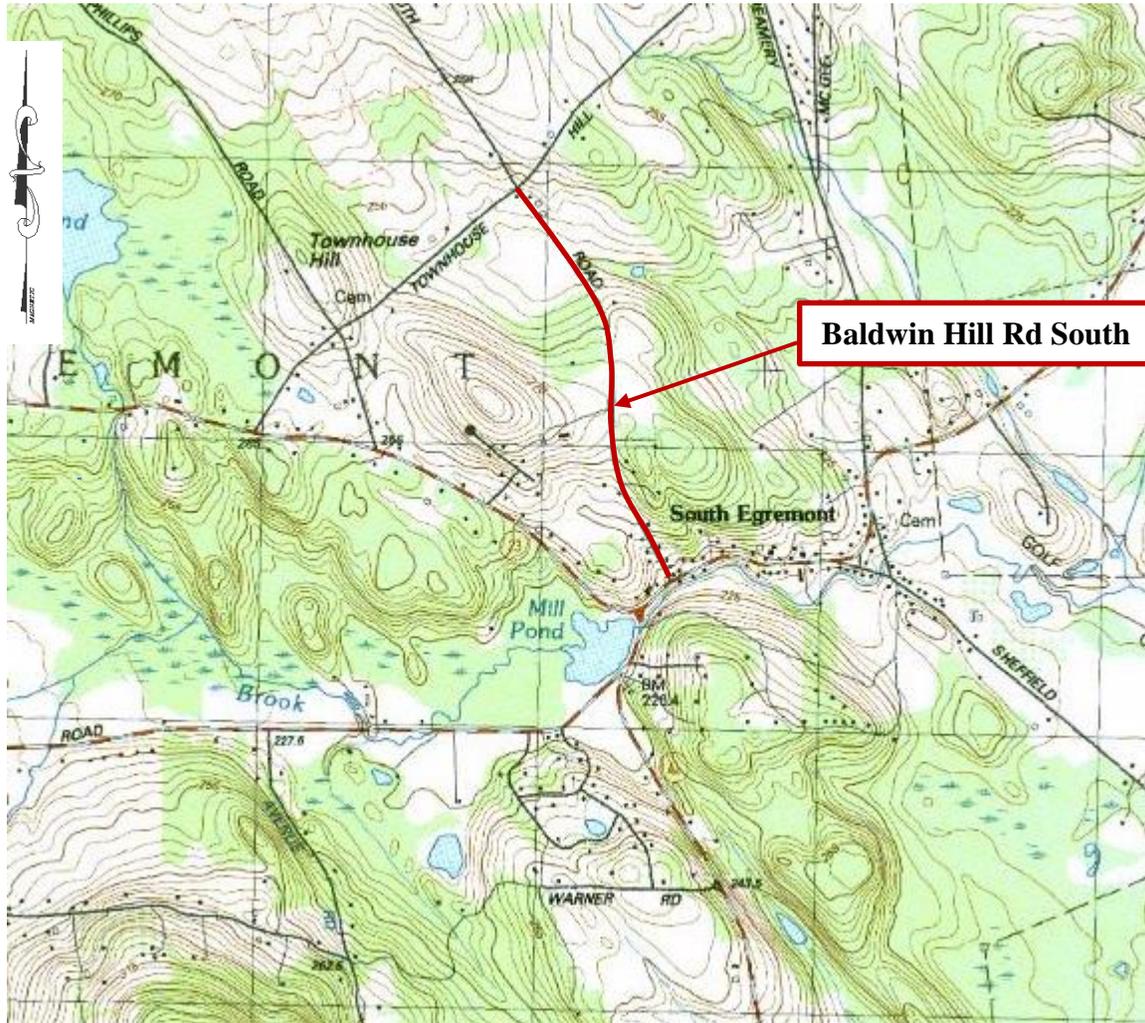
This Price Adjustment will be paid only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department approved extension of time.

Paving Limits

Baldwin Hill Road South from Townhouse Hill Road to Main Street (Route 23/41). See attached compiled site plans and locus map.

UNITED STATES GEOLOGICAL SURVEY MAP



N.T.S.

FORESIGHT LAND SERVICES, INC.
ENGINEERING • SURVEYING • PLANNING
1496 WEST HOUSATONIC STREET
PITTSFIELD, MA 01201

EXHIBIT A
USGS GREAT BARRINGTON QUAD
1987 ED.
SOURCE MASSGIS

BALDWIN HILL RD SOUTH PAVING
AND RELATED WORK, EGREMONT, MA

Bid Proposal

The estimated quantities below are approximate and the Town shall have the right to increase or decrease these amounts depending on conditions. All work shall be carried out in accordance with the specifications as detailed herein.

Having fully examined, read, and in understanding of the specifications for this job and being familiar with all of the conditions surrounding the proposed work, the undersigned proposes to carry out the school paving, curbing and sidewalk project in accordance with the noted specifications at the unit prices as stated below:

Contractor: _____
(Please Print)

Date: _____

BASE BID ITEMS

BID FORM BALDWIN HILL ROAD SOUTH PAVING AND RELATED WORK				
ITEM NO.	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE DOLLARS CENTS	AMOUNT DOLLARS CENTS
1	1 LS	Unclassified Excavation at _____ per LUMP SUM		
2	1 CY	Class B Rock Excavation* at _____ per CUBIC YARD		
3	140 CY	Gravel Borrow for Base (Various Types) & Backfilling Pipes at _____ per CUBIC YARD		
3-A	5 CY	Crushed Stone for Pipe Bedding at _____ per CUBIC YARD		
4	90 LF	12" HDPE Drainage Pipe at _____ per LINEAR FOOT		
5	2 EA	12" HDPE Flared End Section with Stone Discharge Apron at _____ per EACH		
6	11 EA	Adjust Structures at _____ per EACH		
7	1 EA	Remodel Structure at _____ per EACH		
8	10 VF	Rebuild Structure at _____ per VERTICAL FOOT		
9	1 EA	Precast Concrete Catch Basin with Frame & Grate at _____ per EACH		
10	1 EA	Precast Concrete Catch Basin with Frame & Grate (Reduced Size) at _____ per EACH		

11	1 EA	Precast Concrete Catch Basin with Frame & Grate – Type DF at _____ per EACH		
12	120 CY	Dense Grade Crushed Stone Shoulders at _____ per CUBIC YARD		
13	7,490 SY	Pavement Reclamation with Calcium Chloride at _____ per SQUARE YARD		
14	330 TON	Crushed Stone for Blending at _____ per TON		
15	590 GAL	Asphalt Emulsion for Tack Coat at _____ Per GALLON		
16	930 TON	Hot Mix Asphalt Binder Course at _____ Per TON		
17	265 TON	Hot Mix Asphalt Shim Course at _____ per TON		
18	1,095 TON	Hot Mix Asphalt Surface Course at _____ per TON		
19	20 TON	Hot Mix Asphalt for Miscellaneous Work at _____ per TON		
20	290 SY	Hot Mix Asphalt Waterway at _____ per SQUARE YARD		
21	1 LS	Erosion, Sedimentation & Dust Control at _____ per LUMP SUM		
22	1 LS	Safety Controls & Signage for Construction Operations at _____ per LUMP SUM		
23	1 ALLOW	Traffic Police Services (Police During Mobilization if Needed) at <u>Two Thousand Dollars and Zero Cents</u> per ALLOWANCE	\$2,000.00	\$2,000.00
24	1 ALLOW	Testing Services at <u>One Thousand Dollars and Zero Cents</u> per ALLOWANCE	\$1,000.00	\$1,000.00
* Indeterminate quantity assumed for comparison of bids			TOTAL BASE BID =	

TOTAL AMOUNT OF BID:

_____ (\$ _____)

Contractor: _____
(Please Print)

Signature/Title

Date

Company/Firm Name

Phone

Street

City/Town

State

Zip

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature/Title

Company/Firm Name

CERTIFICATE OF VOTE
(Corporations Only)

At a duly authorized meeting of the Board of Directors of the

_____ held on _____
Name of Corporation Date

it was VOTED, that

_____ _____
Name Officer

of this company, be and hereby is authorized to execute contracts and bonds in the name and on behalf of said company, and affix its corporate seal hereto; and such execution of any contract or obligation in this company's name on its behalf by such officer under seal of the company, shall be valid and binding upon this company.

I hereby certify that I am the clerk of the above named corporation and that

_____ is the duly elected officer as above of said company, and that the above vote has not been amended or rescinded and remains in full force and effect as of the date of this contract.

_____ _____
Date Clerk

Corporate Seal

BID PROPOSAL FORM CHECKLIST

Each of the below named items should be included in this bid package. Check off in the appropriate place below all items and sign indicating your receipt of each of the items. If any of these items are not in your package, you must obtain them and read them before submitting a proposal. If any of the below named items are not checked or if this form is not signed, your proposal will be rejected as non-responsive.

Job/Project: **Baldwin Hill Road South Paving & Related Work**

- _____ Invitation to Bid (2 pages)
- _____ Listing of Pay Items (1 page)
- _____ Bid Proposal Form (6 pages)
- _____ Certificate of Non-Collusion (1 page)
- _____ Certificate of Vote (1 page)
- _____ Bid Proposal Form Checklist (1 page)
- _____ Scope of Work & Specifications (25 pages)
- _____ Prevailing Wage Rates (43 pages)
- _____ Detail Sheets (11 pages)
- _____ Compiled Plan Sheets (2 pages)
- _____ Addendum, if issued, list: _____

In addition, the proposal will be rejected if the contractor is not listed in the official or waiver contractor lists issued by MassDOT Prequalification Office.

The undersigned certifies under penalties of perjury that he/she has received, read and understands all the above noted items which are an integral part of this bid proposal.

Signature/Title

Company/Firm Name

SCOPE OF WORK

The following is a breakdown of the scope of work for each roadway based on estimated quantities. Total quantities and Item #'s are shown on the Bid Form.

<u>Approximate Quantity</u>	<u>Description</u>
1 LS	Unclassified Excavation
1 CY	Class B Rock Excavation
140 CY	Gravel Borrow for Base (Various Types) & Backfilling Pipes
5 CY	Crushed Stone for Pipe Bedding
90 LF	12" HDPE Drainage Pipe
2 EA	12" HDPE Flared End Section with Stone Discharge Apron
11 EA	Adjust Structure
1 EA	Remodel Structure
10 LF	Rebuild Structure
1 EA	Precast Concrete Catch Basin with Frame & Grate
1 EA	Precast Concrete Catch Basin with Frame & Grate (Reduced Size)
1 EA	Precast Concrete Catch Basin with Frame & Grate – Type DF
120 CY	Dense Grade Crushed Stone Shoulders
7,490 SY	Pavement Reclamation w/ Calcium Chloride
330 TON	Crushed Stone for Blending
590 GAL	Asphalt Emulsion for Tack Coat
930 TON	Hot Mix Asphalt Binder
265 TON	Hot Mix Asphalt Shim Course
1,095 TON	Hot Mix Asphalt Surface Course
20 TON	Hot Mix Asphalt for Miscellaneous Work
290 SY	Hot Mix Asphalt Waterway
1 LS	Erosion, Sedimentation, and Dust Control
1 LS	Safety Controls and Signage for Construction Operations
1 ALLOW	Traffic Police Services (Police During Mobilization if Necessary)
1 ALLOW	Testing Services

Note: The Town shall have the right to decrease or increase the stated quantities.

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, bedding and backfills, gravel, shoring, grading, and any other necessary work to complete the item as specified unless otherwise noted. The following are additional requirements for each item.

SPECIFICATIONS

Except as otherwise specified herein, the current “Standard Specifications for Highways and Bridges”, 1988 edition, including all addenda and supplemental specifications issued by the Commonwealth of Massachusetts Highway Department and the MassDOT Supplemental Specifications to the 1988 English Standard Specifications for Highways and Bridges dated July 1, 2015, shall apply.

SECTION 120 – EXCAVATION

Work under this item shall conform to the relevant provisions of Section 120 of the Standard Specifications and the following:

Unclassified Excavation shall include all earth moving operations, unclassified excavations, pavement excavations, grading to subgrade and finish grades, cuts, fills, embankments, stripping of topsoil and removing excess topsoil from the site stockpiles and any other earthwork operations not accounted for in other items and required to complete the work. Item additionally includes trucking and disposal of all items as required and as noted herein, as applicable, all gravel and backfilling operations, removing and stacking, resetting and/or relocating items and all permits and work required to obtain permits.

Pavement Milling required for roadways and driveway aprons shall be in accordance with Section 120 and the following:

Any related milling required beyond the roadway edges such as driveway aprons (Bituminous Concrete or Concrete Aprons) to meet the new roadway will be considered incidental. Sweeping according to specifications is considered incidental.

Item 1, Unclassified Excavation, will be measured and paid for by the contract unit price, per lump sum, which price shall include all earth moving operations, unclassified excavations, pavement excavations, grading to subgrade and finish grades, cuts, fills, embankments, stripping of topsoil and removing excess topsoil from the site stockpiles, removal of unsuitable materials and any other earthwork operations not accounted for in other items and required to complete the work. Item additionally includes trucking and disposal of all items as required and as noted herein, as applicable, all gravel and backfilling operations, removing and stacking, resetting and/or relocating items and all permits and work required to obtain permits.

Item 2, Class B Rock Excavation, will be measured and paid for at the contract unit price, per cubic yard, which prices shall include all labor, materials, tools, equipment, removal and disposal of excavated materials and all incidental work thereto. Work shall include excavation to lines and grades as indicated on the plans, these specifications and as directed by the Engineer.

SECTION 02200 – EARTHWORK

Part 1 – General

1.1 Description

1. Section Includes: requirements for earthwork related to construction of sitework other than the buildings, including but not limited to:
 - (1) Strip, screen and stockpile topsoil for reuse on-site as loam borrow.
 - (2) Perform all earthwork for site utilities, and landscaping areas as indicated on drawings.
 - (3) All cuts and fills, embankments, controlled fills, slopes, excavation, compaction, pavement milling, granular aggregate materials, trenching,

bedding and backfills site utilities, rough grading, roadway grading, sidewalk grading, fine grading, subgrade, and geotextile roadway stabilization fabric.

(4) Rock excavation.

(5) Discharge aprons, vegetated swales, reinforced vegetated waterway and embankment repair, sub-drain, and other drainage appurtenances.

2. Related Sections:

(1) Sediment and Erosion Controls

(2) Paving

3. Loam, Seed, Straw Mulch and Cleanup Related Work Performed by Others:

(1) Not Applicable.

1.2 Submittal

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.

2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:

(1) Geotextile Filter Fabric

3. Shop Drawings:

(1) Not Applicable

4. Tests and Samples:

(1) Ordinary Gravel, Gravel Borrow Type B, Processed Gravel, Crushed Stone

5. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:

(1) Location of materials used shown on plans and profiles.

1.3 Quality Assurance

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.4 Codes and Standards

1. Perform earthwork complying with requirements of authorities with jurisdiction.

Part 2 – Products

2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 1988 Standard Specifications for Highways and Bridges, as amended through the 1994 Supplemental Specifications.

- 2.2 Soil Materials: Provide approved borrow soil materials from off-site. Existing site soils that comply, or are made to comply with the specifications may be reused.
- 2.3 Gravel Borrow: Shall consist of hard, durable sand and gravel, and shall be free from ice, snow, roots, sod, rubbish and other deleterious or organic matter. Gravel Borrow shall conform to MHD Standard Specifications, M1.03.0 Type B 3-inch maximum stone size.
- 2.4 Processed Gravel Borrow: Shall conform to the MHD Standard Specifications, M1.03.1.
- 2.5 Unsatisfactory Soil Materials: ASTM D 2487 classification groups GC, SC, ML, MH, CL, CH, OL, OH, and PT and topsoil, subsoil and man-made fill containing brick, concrete, trash, debris, clay or other deleterious material.
- 2.6 Backfill and Fill Materials: Granular off-site soils as specified. Note: Processed materials from on-site excavation may be reused provided they are made to comply with the specifications.
- 2.7 Granular Fill Types I and II shall be free from ice, snow, roots, sod, rubbish, and other deleterious or organic matter. It shall conform to the following gradation requirements.

<u>Sieve Size</u>	<u>Percent Finer by Weight</u>
*	100
No. 10	30 – 95
No. 40	10 – 70
No. 200	0 – 15

*Note: Granular Fill Type I shall have maximum size equal to two-thirds (2/3) of the loose lift thickness when not being used as pipe bedding or two (2) inches when used as pipe bedding. Granular Fill Type II shall have minimum size of one-half (1/2) inches when used as pipe bedding.

- 2.8 Loam Borrow shall conform to MHD Standard Specifications, M1.05.0. This may include screened topsoil obtained from the site.
- 2.9 Crushed Stone shall consist of durable crushed stone, free from ice, snow, and clay, loam, or other deleterious material. The Crushed Stone shall be uniformly blended and shall conform to the following requirements:

<u>Sieve Size</u>	<u>Percent Finer by Weight</u>
1 inch	100
¾ inch	90 – 100
½ inch	10 – 50
3/8 inch	0 – 20
No. 4	0 – 5

- 2.10 Dumped Riprap: Meet requirements of Subsection M2.02.4 of the MHD Standard Specifications for modified rockfill. Riprap shall be well graded.
- 2.11 Geotextile: For Roadway Stabilization – To be Mirafi 140N Non Woven Filter Fabric or approved equal. For Bank Stabilization – To be North American Green P550 or equal.

Part 3 – Execution

3.1 General

1. Refer to MHD Standard Specifications where applicable.

3.2 Definition of Terms used in this Section include the following:

1. Unclassified Excavation includes excavation of pavements and other obstructions visible on ground surface; underground structures, utilities and other items indicated to be demolished and removed; together with earth and all other materials encountered that are not classified as rock or unauthorized excavation.
2. Rock excavation in trenches and pits includes removal and disposal of materials and obstructions encountered which cannot be excavated with a 1.0 cubic yard (heaped) in capacity, 42" wide bucket on track-mounted power excavator equivalent to Caterpillar Model 215, rated at not less than 90 HP flywheel power and 30,000 lb. drawbar pull. Trenches in excess of 10'-0" in width and pits in excess of 30'-0" in either length or width are classified as open excavation.
3. Rock excavation in open excavation includes removal and disposal of material and obstructions encountered that cannot be dislodged and excavated with modern track mounted heavy-duty excavation equipment without drilling, blasting or ripping. Rock excavation equipment is defined as Caterpillar Model No. 973 or No. 977K, or equivalent track mounted loader, rated at not less than 170 HP flywheel power and developing 40,000 lb. break out force (measured in accordance with SAE J732C).
4. Typical of materials classified as rock are boulders two (2) cubic yards or more in volume, solid rock, rock in ledges, and rockhard cementitious aggregate deposits.
5. Intermittent drilling, blasting, or ripping performed to increase production and not necessary to permit excavation of material encountered will be classified as unclassified excavation.
6. Do not perform rock excavation work until a pre-blast survey in accordance with Massachusetts State Regulations has been performed and material to be excavated has been cross-sectioned and classified by Architect/Engineer. Such excavation will be paid for on basis of contract conditions relative to changes in work.
7. Unit Price rock Measurement: Volume of rock or solid concrete masonry actually removed, measured in original position, but not to exceed the following:

- (1) 8 inches below finish grades of areas to be vegetated (other than bottoms of storm water detention or water quality basins).
 - (2) 12 inches outside of concrete forms at footings.
 - (3) 6 inches outside of minimum required dimensions of concrete cast against grade.
 - (4) 6 inches beneath bottom of concrete bases or slabs on grade.
 - (5) 6 inches beneath invert elevation of pipe in trenches, and 24 inches wider than pipe diameter.
 - (6) Unit prices for rock excavation include replacement with approved materials.
 - (7) 24 inches beyond and beneath balled roots of tree plantings.
 - (8) 12 inches below subgrade of organic soil for bottoms of water quality basins.
8. Subgrade: The lowermost surface of an excavation below fill or the surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
 9. Borrow: Soil material obtained off-site when sufficient approved soil material is not available from excavations.
 10. Subbase Course: The layer placed between the subgrade and surface pavement or walk.
 11. Drainage Fill: Washed granular material as specified.
 12. Unauthorized excavation consists of removing materials beyond indicated subgrade elevations or dimensions without direction by the Architect and Owner's Geotechnical Engineer. Unauthorized excavation, as well as remedial work directed by the Architect and Owner's Geotechnical Engineer, shall be at the Contractor's expense.
 13. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below ground surface.
 14. Utilities include underground pipes, conduits, ducts, cables, and underground services including related structures.
- 3.3 Preparation: Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- 3.4 Install and maintain erosion and sedimentation control measures throughout duration of project.
- 3.5 Prevent surface water and subsurface or ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area. De-water with pumping from sumps as required to maintain all excavations in the dry with water level at least twelve (12) inches below final excavation bottom.
- 3.6 Protect subgrades and foundation soils from softening and damage by rain or water accumulation and from freezing temperatures or frost. Frozen or overly wet materials shall not be used as backfill and shall be replaced with Gravel Borrow.

- 3.7 Explosives: Use of explosives shall be by licensed personnel in accordance with applicable safety code regulations and comply with conditions of permits for this project. There shall be no blasting within 200 feet of any portion of a building foundation.
- 3.8 Excavation includes excavation of earth, pavements and other obstructions visible on surface; underground structures, utilities, and other items indicated to be demolished and removed, and other material encountered that are not classified as rock. Rock excavation includes removal and disposal of rock materials, solid concrete masonry, and boulders two (2) cubic yards or more in volume, that cannot be removed without systematic drilling or ripping.
- 3.9 Excavate for structures, pavements, and walks to indicated elevations and dimensions. Widen excavations and stabilize side slopes as required to permit placing and removing concrete formwork, installing foundation drains, services and other construction, and for inspections. Trim subgrades to required lines and grades to leave solid base to receive other work. All topsoil, subsoil and unsuitable (such as brick fill, debris) within the building, parking and roadway limits shall be excavated to suitable bearing soils. Excavation shall extend laterally outside the building to limits determined by a 1-horizontal to 1-vertical line projected downward from the edges of the perimeter footings to the top of the bearing soil.
- 3.10 Pavement Milling shall comply with MassDOT specifications under Section 120.
- 3.11 Excavate utility trenches to indicated slopes, lines, depths, and invert elevations of uniform widths to provide a maximum of 12-inches of working clearance on each side of pipe or conduit. NOTE: The Contractor shall be responsible for design and implementation of trench support works required by all applicable safety codes.
1. Excavate and shape trench subgrade to provide uniform bearing and continuous support for pipe and conduit. Where encountering rock or other unyielding bearing surface, carry trench excavation below invert elevation to receive bedding course in accordance with bedding details.
- 3.12 Foundations or specified base course for pavements shall be placed as soon as possible following excavation of final subgrade and subgrade approval by the Owner's Geotechnical Engineer. Final excavation to subgrade shall be performed using a smooth-edged bucket.
- 3.13 Where groundwater is more than four (4) feet below exposed subgrade for pavement and building foundations, the subgrade shall be proof-compacted with four (4) passes of a 1,200 to 1,500 pound vibratory drum roller.
- 3.14 Where groundwater is four (4) feet or less below exposed subgrade for building foundations, the subgrade shall be over excavated twelve (12) inches and $\frac{3}{4}$ inch

crushed stone surrounded with non-woven filter fabric shall be placed to subgrade elevation. Compaction of the subgrade shall not be performed.

- 3.15 Where groundwater is four (4) feet or less below pavement subgrade, proof compacting with a 1,200 to 1,500 pound vibratory drum roller may be performed based on observations and approval by the Owner's Geotechnical Engineer.
- 3.16 Upon final approval of all subgrades, no traffic shall be allowed on the exposed subgrades.
- 3.17 Approval of Subgrade: When the Owner's Geotechnical Engineer determines that unforeseen unsatisfactory soil is present, continue excavation and replace with Granular Fill, Type I, as directed. Payment will be made according to Contract provisions for changes in the work.
1. Remove and replace subgrade soils or previously placed fill damaged by freezing temperatures, frost, rain, accumulated water, or construction activities at no additional cost to the Owner. Limits of removal shall be determined by Owner's Geotechnical Engineer. Replacement soil shall be Granular Fill, Type I.
- 3.18 Fill unauthorized excavation under foundations or wall footings with compacted Granular Fill, Type I, by extending indicated bottom elevation of concrete foundation or footing to excavation bottom, without altering required top elevation. Fill unauthorized excavations under other construction as directed by Owner's Geotechnical Engineer.
- 3.19 Store excavated and borrow soil materials acceptable for backfill and fill in shaped, graded, drained, and covered stockpiles. Locate stockpiles away from edge of excavations and outside drip line of remaining trees.
- 3.20 Backfill excavations promptly following acceptance of affected work below final grade.
- 3.21 Utility Trench Backfill: Place, compact, and shape Granular fill, Type I or II as required on the drawings, to provide continuous support for pipes and conduits over rock and other unyielding bearing surfaces and to fill unauthorized excavations. NOTE: Place and compact initial backfill of Granular Fill, Type I or II, free of particles larger than 1 inch, to a height of 12 inches over the utility pipe or conduit. Place and compact final backfill of Granular Fill, Type I or II to final subgrade.
1. Coordinate backfilling with utilities testing.
 2. Install warning tape directly above utilities, 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.
- 3.22 Fill Preparation: Bench existing sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing surface.

- 3.23 Uniformly moisten or aerate backfill layer to within 2 percent of optimum moisture content before compaction.
1. Remove and replace, or scarify and air dry, backfill that is too wet to compact so specified density.
- 3.24 Compaction: Place backfill and fill materials in layers not more than 12 inches in loose depth for material compacted by heavy compaction equipment, and not more than 6 inches in loose depth for material compacted by hand-operated tampers. Place evenly alongside structures and utilities to required elevations.
- 3.25 Compact soil to not less than the following percentages of maximum dry density according to ASTM D 1557:
1. Embankments-Compact full height and width to 95 percent.
 2. Under structures, building slabs, steps, and pavements, compact the top 12 inches below subgrade and each layer of backfill or fill material to 95 percent.
 3. Under lawn or unpaved areas, compact the top 6 inches below subgrade and each layer of backfill or fill material to 85 percent.
 4. Under walkways, compact the top 6 inches below subgrade and each layer of backfill or fill material to 95 percent.
 5. Impervious Sol Embankments-Compact full depth to 95%.
 6. Organic soil for wetland plantings-compact to 85 percent.
- 3.26 Grading: Uniformly grade areas to a smooth surface, free from irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated. Grade lawns, walks, and unpaved subgrades to tolerances of plus or minus 0.10 foot and pavements and areas within building lines to plus or minus ½ inch.
- 3.27 Subbase: Under pavements and walks, place subbase course material on prepared subgrades and compact at optimum moisture content to required grades, lines, cross sections, and thickness.
1. Place shoulders along edges of subbase to prevent lateral movement. Construct shoulders at least 12 inches wide of acceptable soil materials and compact simultaneously with each subbase layer.
- 3.28 Protection: Repair and reestablish grades where completed or partially completed surfaces become eroded, rutted, settled, or lose compaction.
- 3.29 Disposal: Remove waste material, which are unsatisfactory for reuse, including unsatisfactory fill materials, trash, and debris and legally dispose of it off the Owner's property.
- 3.30 Off-site Stockpile: There are no designated off-site stockpiles.
- 3.31 Control sediments to prevent entry into drainage system.

- 3.32 Any areas of old fill that is determined by the Owner's Geotechnical Engineer to be unsuitable shall be removed and replaced with granular fill, and re-compacted.
- 3.33 Construct subdrain if required to intercept groundwater springs, as directed by the site civil Engineer and as shown on the plans.
- 3.34 Geotextile for roadway stabilization as shown on the plans and as directed by the Field Engineer.
- 3.35 Geotextile for bank stabilization as shown on the plans and per manufacturer recommendations.
- 3.36 Testing and Inspection:
1. Testing and Inspection Service: Owner will engage a qualified independent testing agency to perform laboratory testing of proposed on-site and borrow soils to verify that soils comply with specified requirements.
 2. Material Tests shall be performed and results submitted to the Owner's Geotechnical Engineer for review and approval a minimum of five (5) working days prior to use.
 3. Laboratory gradation tests shall be performed as per Item 999.2 at the frequency of at least one (1) test per proposed soil type per source and as necessary judged by the Owner's Geotechnical Engineer based on visual variations during construction from the soil originally submitted and approved.
 4. Field Quality Control: Allow Owner's Engineer access to inspect and test each subgrade and each fill or backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.
 - (1) Perform field in-place density tests according to ASTM D 1556 (sand cone method), ASTM D 2167 (rubber balloon method), ASTM D 2922 *nuclear method) or ASTM D 2937 (drive cylinder method), as applicable.
 - (2) Paved Areas: At subgrade and at each compacted fill and backfill layer, perform at least one field in-place density test for every 2,000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
 - (3) Foundation Wall Backfill: At each compacted backfill layer, perform at least one field in-place density test for each 100 feet or less of wall length, but in no case fewer than two tests.
 - (4) Trench Backfill: In each compacted initial and final backfill layer, perform at least one field in-place density test for each 150 feet or less of trench, but in no case fewer than two tests.
- 3.37 When testing results indicate that subgrades, fills, or backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, re-compact or retest until obtaining required density.

Part 4-Measurement and Payment

- 4.1 Lump Sum Price: This item shall be paid for as part of the contract stipulated price with no separate measurement or payment, except for the following unit price items.
- 4.2 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the contract unit price.

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, backfills, shoring, grading, and any other necessary work to complete the item as specified and as shown on plans. The following are additional requirements for each item.

Item 1, Unclassified Excavation, will be measured and paid for by the lump sum, which price will include all earth moving operations, unclassified excavations, pavement excavations, grading to subgrade and finish grades, cuts, fills, embankments, stripping of topsoil and removing excess topsoil from the site stockpiles and any other earthwork operations not accounted for in other items and required to complete the work. Item additionally includes trucking and disposal of all items as required and as noted herein, as applicable, all gravel and backfilling operations, removing and stacking, resetting and/or relocating items and all permits and work required to obtain permits.

Item 2, Class B Rock Excavation, will be measured and paid for at the contract unit price, per cubic yard, which prices shall include all labor, materials, tools, equipment, removal and disposal of excavated materials and all incidental work thereto. Work shall include excavation to lines and grades as indicated on the plans, these specifications and as directed by the Engineer.

Item 3, Gravel Borrow for Base (Various Types) & Backfilling Pipes, will be measured and paid for by the cubic yard compacted in place as roadway base materials, driveway material & backfilling pipes.

Item 3-A, Crushed Stone for Pipe Bedding, will be measured and paid for by the cubic yard, compacted in place as bedding for pipes, and as directed by the Town or Engineer.

Item 14, Crushed Stone for Blending, will be measured and paid for by the ton, as required for reclamation base.

There will be no additions or deductions for compaction and swelling.

For purposes of weight conversion, the unit weight of gravel borrow, compacted in place, will be 128 lbs/cubic foot or 1.728 tons/cubic yard. The Contractor shall provide the Field Engineer with signed and dated weight slips.

END OF SECTION 02200

SECTION 220 – ADJUSTMENT, REBUILDING, AND REMODELING OF STRUCTURES

The Work under this Item shall be in accordance with the relevant provisions of Section 220 of the MassDOT Standard Specifications, in conformance to the Town Public Works Standards.

Item 6, Adjust Structure (Various Types), will be measured and paid for as a complete unit, each adjusted including temporary plating, raising and/or lowering of frame and cover or grate and/or concrete collar, and all other incidental work. As applicable, structures shall be adjusted after the leveling course is applied, before pavement reclamation and after binder course. Structures within the pavement limits to be adjusted may include, but are not limited to, drainage catch basins and manholes, water gate valve boxes, electric, telephone and communication structures, gas valve boxes and sewer manholes.

Item 7, Remodel Structure (Various Types), will be measured and paid for as a complete unit, each, remodeled including excavation, backfill, disposal of existing materials, parging inside and out as required, risers, temporary plating, cleaning structure, coring new inverts, frame and cover or frame and grate disposal and replacement if required, raising and/or lowering of frame, cover or grate, concrete collar, and all other incidental work. As applicable, structures shall be adjusted after the leveling course is applied, before pavement reclamation and after binder course. Structures within the pavement limits to be adjusted may include, but are not limited to, drainage catch basins and manholes, water gate valve boxes, electric, telephone and communication structures, gas valve boxes and sewer manholes.

Item 8, Rebuild Structure (Various Types), will be measured and paid for per vertical foot of structure rebuilt, including parging inside and out as required, brick, mortar, collar, removal and/or re-setting of frame, cover or grate, excavation, backfill, cleaning structure and all other incidental work.

SECTION 400 – SUB-BASE, BASE COURSES, SHOULDERS

Work under this item shall conform to the relevant provisions of Section 400 of the Standard Specifications and the following:

Item 12, Dense Grade Crushed Stone for Shoulders, will be measured and paid for at the contract unit price, per ton compacted in place for roadway shoulder, minimum width of 3 feet and a minimum depth of 2 inches. Any excavation and disposal of excavated materials required to install the shoulder and create positive drainage shall be considered incidental.

The contractor shall provide the Town or Town Representative with signed and dated weight slips. For purposes of conversion the unit weight of the dense graded crushed stone will be 105 lbs/cubic foot. The dense graded crushed stone to be used shall meet Material Specification M2.01.7

**SECTION 403 – FULL DEPTH PAVEMENT RECLAMATION W/ CALCIUM CHLORIDE
(SEE SECTION 460 FOR ADDITIONAL INFO)**

Work under this contract shall consist of the Contractor furnishing equipment and materials to pulverize the in-place asphalt pavement and underlying material, spray liquid calcium chloride on the pulverized mass, mix and/or blend the material, spread and compact the resultant mixture to the lines and grades of the existing roadway profile or as directed by the engineer or Town, cap the finished base with an application of calcium chloride. Bid quantities are approximate only, payment shall be for actual area reclaimed, excluding overlap. ***All grading, rolling and cleanup shall be the responsibility of the contractor. If the General Contractor subcontracts the Full Depth Reclamation the General Contractor shall provide competent supervision at all times reclaiming operations are taking place.***

Limited information exists regarding the existing pavement depth. The approximate maximum existing pavement depth for bidding purposes is assumed to be 4 inches. The depth of reclamation shall be assumed to be 8 inches.

Item 13, Full Depth Pavement Reclamation with Calcium Chloride, will be measured and paid for at the contract unit price per square yard, complete in-place including all sampling and testing and development of job mix formula, furnishing all equipment, material and labor for pulverizing, blending, stabilizing, grading, fine grading saw cutting, compacting, and for all incidentals necessary to complete the work at the required depth and stabilization depth specified herein.

Windrowing and moving excess reclaimed material to the shoulder and slope areas of other areas of the roadway within the project limits shall be considered incidental and included in the payment of this item. Excess reclaimed material and unsuitable material removed from the roadway shall be excavated and disposed of as incidental work.

SECTION 440 – ROADWAY DUST CONTROL

If necessary, the work under this item shall conform to the relevant provision of 440 of the Standard Specifications and the following:

The contractor shall sufficiently sweep the roadway surface to expose any hidden structures required to be adjusted. The Town will not be liable for any damage to equipment resulting from unknown structures, buried structures, or structures not marked or sufficiently adjusted.

The Contractor shall keep street dust to a minimum by use of calcium chloride and/or water as necessary as directed by the Engineer.

Item also includes inlet sediment traps (silt sacks) at catch basins (assumed for bid quantity is 11) and 100 LF, 9” diameter staked straw wattles. Coordinate location of wattles with Town and Engineer.

Item 21, Erosion, Sedimentation & Dust Control, shall be paid for at the unit price per lump sum. Erosion and Sedimentation Controls shall be as shown on the plans and as

required to control erosion. Dust control shall include placement, hauling, all labor, tools, equipment, materials and all incidental work thereto to ensure dust control throughout construction (as described above under section 440 – Roadway Dust Control). In order to equitably apportion payment between initial installation, maintenance during construction, and final stabilization and removal, Contractor shall itemize the portion of the stipulated price to be attributed to this item.

1. This item shall be paid for according to the following schedule:
 - (1) 25% Initial Installation of Measures;
 - (2) 50% Maintenance of measures throughout construction phase, to be paid for pro-rata as site-work proceeds; and
 - (3) 25% Final completion of project stabilization and removal of measures after stabilization is completed to satisfaction of Engineer and Conservation Commission.

SECTION 460 – CLASS I BITUMINOUS CONCRETE PAVING

Furnish all labor, material, equipment and incidentals required to carry out the paving work in accordance with Section 460. Place bituminous concrete leveling (shim) course as applicable, and top course over the entire area per plan or as directed by engineer, including pad for bituminous curbing (if applicable), street approaches and driveway aprons. Fine grading and compaction to be coordinated with the curbing and sidewalks as applicable. Sawcutting, milling and sweeping prior to paving operations shall be considered incidental.

Bidder shall act as the General Contractor and be fully responsible for the actions of any subcontractors. Grade and alignment control shall be the responsibility of the general contractor. **The General Contractor shall provide competent supervision at all times.** General Contractor is responsible for providing specified width between curbs and shall oversee each subcontractor to assure that the completed paving meets specifications.

The pavement milling shall be as specified in Section 120.

Paving is to be placed between July 11th and September 14th.

All base courses shall receive an application of tack coat at the rate of 0.05 gal/sy prior to surface course. All pavement milled and/or overlaid shall receive an application of tack coat at the rate of 0.07 gal/sy prior to surface/top course. Contact surfaces of curbing, castings, and other structures shall be painted with tack coat. Keyways shall be cut and tack coated at all beginning and ending points of new paving.

All existing driveway aprons shall be sawcut.

The Contractor shall employ competent, experienced paver and roller operators and asphalt rakers. If, in the opinion of the Town's representative, the Contractor is not providing a satisfactory pavement, the Contractor shall cease paving operations until the cause of the unsatisfactory condition is remedied.

The contractor shall prove the ability to supply the project with trucks to maintain a proper supply of hot mix asphalt as required by the paving process.

Any police details required for this project shall be scheduled by the contractor, and coordinated with the Town DPW, prior to requesting detail.

Equipment

Reclaimer

Reclamation will be by means of a traveling rotary reclaimer or equivalent machine capable of cutting through existing asphalt at depths up to 12 inches, (30.5 centimeters), with one pass. The machine shall be self-propelled and equipped with an adjustable grading blade thus leaving its path generally smooth for traffic. Equipment such as road planners or cold milling machines which are designed to mill or shred the existing bituminous concrete rather than to crush or fracture it, are not considered capable of achieving specification gradation. The required and necessary action of the reclaimer will increase the percentages of fine aggregate. Existing bituminous concrete and gravel base must be pulverized and mixed so as to form a homogeneous mass of uniformly processed base material which will bond together when compacted.

Pressure Distributor

The distributor for calcium shall be capable of applying liquid calcium chloride in accurately measured quantities at any rate between 0.1 to 2.0 gallons per square yard (0.5 to 9.1 liters per square meter), of roadway surface, at any length of spray bar up to 20 feet, (6.1 meters). The distributor shall be capable of maintaining a uniform rate of distribution of material regardless of change in grade, width or direction of the road. The distributor shall be equipped with a Digital Volumetric Accumulator capable of measuring liters applied and distance traveled. The volume and measuring device shall be equipped with a power unit for the pump so that application is by pressure, not gravity. The spray nozzles and pressure system shall provide a sufficient and uniform fan-shaped spray of material throughout the entire length of the spray bar at all times while operating, and shall be adjustable laterally and vertically. The spray shall completely cover the roadway surface receiving the treatment.

Grader

A motor grader shall be used for shaping and finishing the surface of the reclaimed base, in accordance with the lines, grades and typical cross slope established by the DPW Superintendent or his Designee.

Materials

Bituminous concrete (Hot Mix Asphalt) paving shall be HMA (Dense Mix) & HMA Standard (Top), as specified in Sections 460 and M3.11.03 of the Massachusetts Standard Specifications.

Tack coat shall be either emulsified asphalt, grade RS-1 conforming to Section M3.03.0 or cutback asphalt grade RC-70 or RC-250 conforming to Section M3.02.0 of the Massachusetts Standard Specifications.

Method of Construction

Broom clean all surfaces before any tack coat and resurfacing. Fine grade any gravel roads and roads that have been reclaimed or reconstructed. Contractor shall assure that reclaimed or

reconstructed areas are left properly graded by the operations to allow for a uniform, specified thickness of asphalt concrete.

All catch basins, manholes, valve boxes, and utility frames are to be cleaned and set to the grade of the top course prior to final paving. Reset all signs, guard rails, mailboxes as necessary to perform work, as incidental work.

Joints shall be wedge joint.

Keyways to provide smooth transition shall be milled and tack coated at all beginning and ending points of the paving operations. Mainline center joint shall be a wedge joint.

Any Hot Mix Asphalt (HMA) required for repairing of potholes or roadway repair areas that appear after the roadway is milled shall be paid for per ton under this Item. Tack Coat needed will be considered incidental. Any temporary ramps needed at beginning or ends of project shall be paid under the item.

The first course/leveling course that will be placed over the milled surface will be HMA dense Mix (M3.11.03). The shimming course is assumed to be an average of 1" thick for bid purposes. Actual thickness may vary. It is the Contractors responsibility to vary the depths of the level mix as needed to achieve cross section and gutter line profile to existing drainage. **The contractor is responsible for grade control to ensure proper drainage.** The overall depth cannot average more than one (1") inch. Tack coat (Paid under Item 15) shall be placed on the milled surface of the roadway prior to the leveling course at an application rate of 0.07 Gallons per Square Yard. If required by Engineer, apply a second tack coat to the leveling course prior to the top course at a rate of 0.05 Gal/SY.

The second course/top course that will be placed over the level course will be HMA Surface Course-Standard Top (M3.11.03). It is intended that this course be laid at a uniform depth of 1 1/2 inches

Payment for the Class I Bituminous Concrete courses shall be by the ton spread and compacted in place. The quantity shall be determined by weigh slips that have been countersigned by the Town's representative.

Payment for tack coat shall be by the gallons applied. The quantity shall be by delivery slips that have been countersigned by the Town's representative.

Payment for Bituminous Concrete sidewalk courses shall be by the ton spread and compacted in place. The quantity shall be determined by weight slips that have been countersigned by the Town's representative.

The Town shall have the right to decrease or increase the stated quantities.

Pulverization Process

The existing road pavement shall be pulverized and mixed with equal amounts of gravel base existing in the roadway foundation. The pulverization shall blend the asphalt and base material into a homogeneous mass, utilizing the asphalt acquired from the existing pavement as a

stabilizer to bond material together when compacted. After the first pulverization, one (1) application of calcium chloride totaling 0.75 gallon per square yard, shall be applied. The aggregate mass shall then be pulverized again to ensure proper asphalt, gravel, and calcium chloride blending to the desired depth. Following base compaction, shaping and fine grading, then re-compaction, a final capping of 0.25 gallons per square yard, of calcium chloride shall be applied. Total calcium chloride application shall be one (1) gallon per square yard.

Rolling

Initial rolling shall be done immediately following the second reclaimer pass, and again following fine grading. Base course materials shall be compacted to at least 95 percent of maximum dry density.

Grading

Subgrade changes may be necessary to meet the proposed grade lines and cross sections. In areas where the proposed roadway grade is above the present grade, additional Dense Graded Crushed Stone shall be delivered by the Contractor to the site, incorporated by the Contractor during reclamation, re-grading and compaction of the pulverized material, then brought to line and grade. In areas where the proposed roadway grade is below the present grade, excavated subbase material shall be placed in windrows or stockpiled so as not to impede the work of the Contractor, and then removed to a location provided by the Town. For purposes of the bid, the Contractor shall deliver excess materials to the Egremont DPW. After the material has been thoroughly worked by the reclaimer, the mass will be shaped and fine graded. Fine grading to be coordinated with the paving contractor. **Any rocks or pieces of pavement that have been thrown onto the shoulders or adjoining property shall immediately be removed and either incorporated into the reclaimed base or disposed of offsite.**

In addition to the work described in Section 472, the following shall apply to HMA for miscellaneous work used for driveway approaches. The HMA shall be chosen by the Engineer and should be as defined under Subsection M3.11.03 (HMA Surface Course-Standard Top or HMA Surface Course-Dense Binder). The Unit price per TON of Item 9 shall include all driveway excavation required (i.e. earth excavation, rock excavation and Bituminous Concrete/Concrete excavation). Also for driveways, processed gravel (M1.03.1), any fine grading, compaction and HMA shall be included in the price per TON. The drives shall have a milled joint and tack coated (M3.11.06). Milling and tack coat shall be considered incidental on driveways/walkways.

Item 20, Hot Mix Asphalt Waterways shall also include capping of any existing paved waterways, including paved aprons around drainage structures off the roadway, as directed by the Engineer/Town Representative with M3.11.03 (HMA Dense Mix). Tack coat of existing paved waterway surface and any adjustment of drainage structures required shall be considered incidental. Tack coat around structures shall be considered incidental.

Item 16, Hot Mix Asphalt Binder Course; Item 17, Hot Mix Asphalt for Shim Course; Item 18, Hot Mix Asphalt Surface Course; and Item 19, Hot Mix Asphalt for Miscellaneous Work will be measured and paid for at the contract unit price per ton, spread and compacted in place. Contractor shall submit signed weight slips for payment

consideration. All asphalt paving operations i.e. roadway paving, interim paving, pavement repairs, driveway aprons/transitions, and any other paving operations approved by field engineer, will be considered for payment under these items. No extra payment will be made for handwork.

Item 15, Asphalt Emulsion for Tack Coat, payment shall be by the gallon applied. The quantity shall be by delivery slips that have been countersigned by the Town's representative. The level course shall receive an application of tack coat at the rate of 0.05 gal/sy prior to surface course. All pavement milled shall receive an application of tack coat at the rate of 0.07 gal/sy prior to surface course prior to level course.

The contractor shall provide the Engineer or Town Representative with signed and dated Weight/Gallon slips.

SECTION 851 – SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS

This work will conform to the relevant provisions of Section 850 and the following:

The Contractor will be responsible for providing and setting up all necessary moveable or portable signing and other necessary devices, cones, reflectorized drums, and high level warning devices. The Contractor shall coordinate traffic control requirements with the Clarksburg Police Departments.

As necessary and/or as directed by the Engineer, traffic police shall be employed for the protection and maintenance of traffic. Reasonable facilities shall be provided by the Contractor for the convenient and safe passage of pedestrians and vehicles through the project and also to and from properties abutting the site of improvement.

The Contractor's attention is directed to the need for insuring that the roadside is clear of all construction vehicles during and after working hours, equipment and materials not in use and debris are removed from the edge of the traveled way, and modification to these items is possible if necessary to insure the safety of the traveler.

All work shall conform to MassDOT standards and requirements and details and such work, materials, labor, etc...shall be included as incidental.

The use of appropriate signage, reflectorized plastic drums, and uniformed traffic officers along with other traffic control devices as specified, will be required in order to facilitate traffic flow. The following is a general guideline that shall be adhered to:

1. Adequate warning of the project limits will be provided for by placement of permanent signs.
2. Channelization will be accomplished through the use of proper reflectorized drums, signing, barricades and other lightweight devise that will yield when hit by errant vehicles.
3. Safety controls for construction operations will be required throughout the duration of the project.

4. The design, application, and installation of all devices shall conform to the United States Department of Transportation Manual on Uniform Traffic Control Devices, latest edition.
5. All traffic control devices shall be removed immediately when no longer needed.
6. Access/egress of all existing driveways shall be maintained at all times.
7. All intersections within the project limits shall remain open to traffic at all times and shall be maintained to allow normal turning movements throughout the construction period as required.
8. Ordering daily police for traffic control is the responsibility of the Contractor. Contractor shall provide TMPs prior to work to the Town and Engineer for approval and signs required shall be included in this item.

Item 22, Safety Controls & Signage for Construction Operations, will be measured and paid for at the contract unit price per lump sum, which price will include all labor, tools, equipment, materials, etc. incidental to this item.

TRAFFIC POLICE SERVICES (IF NEEDED DURING MOBILIZATION)

The Contractor shall furnish police services required to direct traffic on existing roadways where traffic is maintained. The Contractor shall provide such police officers as may be deemed necessary by either the Engineer or the Town for the direction and control of all traffic traveling within and through the project area. The police officers shall be obtained from the Town Police Department. The police officers shall be paid by the contractor at the prevailing rate of wages established by the Town.

Any police details required during mobilization for this project shall be scheduled by the contractor.

Item 23, Traffic Police Services (If Needed During Mobilization), is an allowance for the furnishing of police services that has been included in all bids. This allowance is determined by multiplying the number of hours estimated as necessary by the prevailing hourly rate of wages established for such services. The Contractor shall submit certified copies of itemized bills of services rendered for review and approval by the Engineer. The allowance will be adjusted to the actual amount paid for authorized and approved police services.

Note: It is anticipated that the Town will provide flaggers during construction and limited police services required; to be coordinated with the Town DPW.

TESTING SERVICES

The quantity to be paid for under this item shall be the actual amount paid by the Contractor to provide satisfactory testing operations as stipulated and required. Any overhead costs shall be considered to be included in the prices bid for the other items of the Contract.

Item 24, Testing Services, an allowance for testing services has been included in all bids. Allowance is for testing of earthwork materials or subbase conditions to ensure compliance with these Special Provisions. The Town will select a testing laboratory for

this work. The contractor shall then coordinate with the laboratory to be present on the work site to perform the testing. Test reports shall be provided to the Engineer with copies to the contractor. Work on materials that fail to meet the requirements of these Special Provisions shall be promptly corrected by the contractor. The cost of tests that fail to show compliance will not be reimbursed to the contractor. The contractor shall be reimbursed for testing based on paid invoices from the laboratory and backed up with the Contractor's cancelled check.

SECTION 02722 – STORM DRAINAGE SYSTEM

Part 1 – General

1.1 Description

1. Section Includes:
 - (1) Piping
 - (2) Subdrain Cleanout
2. Related Sections
 - (1) Sediment and Erosion Control Measures
 - (2) Earthwork
 - (3) Bituminous Concrete Paving & Curbing
3. Related Work Performed by Others
 - (1) Not Applicable.

1.2 Submittals

1. Comply with pertinent provisions of the standard specifications, the plans, details, and as stated herein.
2. Product Data: Submit manufacturer's technical product data and installation instructions for materials and products of this Section:
 - (1) Pipe Materials
 - (2) Subdrain Cleanout
3. Shop Drawings
 - (1) Precast Concrete Structures
4. Record Data: In accordance with the provisions of Division 1, prior to project closeout, submit Record Data of work installed under this Section:
 - (1) Surveyed locations and elevations of all drainage structures, including rims and invert elevations.
 - (2) Tie measurements to underground junctions, wyes or bends.
 - (3) Notations about unusual soils or groundwater conditions encountered in trench.
 - (4) Notation about any pipe crossings.
 - (5) Notation (depth, type, clearance, concrete cradles) about any utility crossings.

1.3 Quality Assurance

1. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the

specified requirements and the methods needed for proper performance of the work of this Section.

1.4 Codes and Standards

1. Wetland Protection Act permits and conditions. – Not Applicable
2. NPDES Storm Water Notice of Intent and General Permit conditions if disturbed area exceeds 1 acre. – Not Applicable

Part 2 – Products

- 2.1 The materials furnished under this Section shall conform to the following specifications. Wherever in this Section the term "MHD Standard Specifications" is used, it shall be read to mean the relevant provisions of the Mass. Highway Department 1988 Standard Specifications for Highways and Bridges, as amended.
1. Frames and Grates for Catch Basins shall be M8.03.0 and M8.03.2 – Heavy Duty Lebaron LF 245 or equal – 3 or 4 flange, as required.
 2. Frames and covers for drain manholes shall be: Frame 265 lb., Cover 210 lb. To be stamped "Drain." Lebaron LB 268-3 or equal.
 3. Cement Concrete Bricks and Blocks. M4.05.1
 4. Precast Concrete Units. M4.02.14
 5. Polyvinyl Chloride (PVC) Sewer Pipe and fittings: ASTM D 3034, SDR- 35, with gasketed joints per ASTM F 477, elastomeric-seal gaskets. Perforated or un-perforated as per plans.
 6. Smooth Bore Corrugated Polyethylene Pipe (*SBCPE) with high density polyethylene (HDPE), with soil tight O-ring joints. Equivalent to Advanced Drainage Systems, Inc., type N-12, or Hancor.
 7. Filter Fabric-Non-woven, needle punched, polyester geotextile.
(1) Manufacturer's: Mirafi 140N
 8. Washed Crushed Stone-1/2"-3/4" (for weep holes and bedding) M2.01.5
 9. Concrete, Class DE, 4000psi. M4.02.00
 10. Reinforcing steel, Grade 60 steel bars. M8.01.0
 11. Special Pipe Couplings and Fittings: Rubber or elastomeric sleeve and band assembly fabricated to match outside diameters of pipes to be joined, for non-pressure joints. Flexible couplings by FERNCO.
 12. Precast Concrete Catch Basins: ASTM C 858, precast, reinforced concrete, designed according to ASTM C 857 for structural loading. Include depth, shape, and dimensions indicated, with provision for rubber gasket joints.
 - (1) Gaskets: Rubber
 - (2) Grade Rings: Include 2 or 3 reinforced-concrete rings, of 6-inch to 9-inch (152-mm to 229-mm) total thickness, that matches a 24-inch (610-mm) diameter frame and grate.
 - (3) Steps: MA Industries, Inc. Model PSI-PF or equal
 - (4) Pipe Connectors: ASTM C 923 (ASTM C 923M), resilient, of size required, for each pipe connecting to base section.
 - (5) Frames and Grates for Catch Basins: shall be M8.03.0 and M8.03.2 – Heavy Dute Lebaron LF 245 or equal – 3 or 4 flange, as required.
 - (6) Oil Hoods: Lebaron – L202 Mass. Standard 12" & 15" or equal.

13. Drainage manholes shall be precast units conforming to ASTM C478 and shall be equivalent to AC4 Arrow Concrete Products, Inc. – 6” extended base with steps equal to MA Industries PSI-PF.
14. Geotextile for weepholes, subdrain and misc. bedding shall be equal to Mirafi 140N, M9.50.0.

2.2 Concrete

Cast-in-place concrete according to ACI 318, ACI 350R, and the following:

1. Cement: ASTM C 150, Type II
2. Aggregates: ASTM C 33

Part 3 – Execution

3.1 General

1. Refer to MHD Standard Specifications where applicable.
2. The Contractor shall stake out the locations and elevations of all existing and proposed piping, drainage structures, and other utilities in the vicinity before proceeding with work on the system to check whether conflicts may exist. Any discrepancies between the information shown on the drawings and the actual conditions found in the field shall be reported at once to the Engineer for resolution.
3. Unless otherwise stated, all pipes shall have Type 1 Bedding per detail on plans. Precast concrete structures shall be set on 6" crushed stone bedding.
4. Install concrete block structure if site conditions prevent precast structure at the approval of the field engineer.

3.2 Drain Pipes and Structures

1. All Storm Drain Pipes shall be laid true to line and grade between structures using laser-beam control. No deflections greater than 1° per joint shall be permitted in the finished pipe line. The slope of the pipe shall not vary from design by more than 0.05% for slopes less than or equal to 1.00%, or 0.5% for slopes greater than 1.00%.
2. No changes in drain structure locations, grades or elevations shall be made by Contractor without prior written approval of the Engineer.
3. Pipes to be located within 10 feet of areas subject to vehicular traffic shall be backfilled with select granular borrow and compacted in accordance with the applicable section of these specifications.
4. When using flexible pipe materials such as corrugated polyethylene, Contractor shall take special precautions to protect against crushing or deflection of pipe. Any such crushed or deflected pipe shall be removed and replaced at contractor's expense.
5. The drain pipe ends shall extend 4 inches into the face of drainage structure walls. The annular space between the outside wall of the pipe and the opening in the wall shall be thoroughly sealed with mortar from both sides of the wall.
6. Weep holes shall be installed at each catch basin in accordance with the plans and details, and with Section 201.64 of the Standard Specifications. The outside of the catch basin around the weep shall have a drain pit composed of

¼ cubic yard of crushed stone completely surrounded by a filter fabric envelope. Contractor shall take special care to ensure good contact between filter fabric and catch basin wall to prevent washout of fines in backfill causing subsidence of grade around catch basin. See detail for dry basin construction.

7. Any existing storm drains, area drains, roof leaders or other drainage pipes (other than sanitary sewer pipes) which are encountered in the excavation, whether or not they are shown on the plans, shall be protected, repaired, replaced, abandoned or connected into the new storm drainage system as directed by the Engineer. Contractor shall notify the Engineer for instructions whenever such pipe is encountered. No sanitary sewer drain shall be connected into the storm drains. Any storm drains, which are found to tie into sanitary sewers, shall be disconnected and re-piped into the storm drain.
8. Where applicable, drainage structures shall include cast in openings and pipe stubs for connection of subdrains, roof leader outlets, foundation drain outlets, etc, in addition to storm drain pipes. Contractor shall take care to coordinate the work shown on the Site Utility Plans with other plans such as Architectural, Foundation, Plumbing, Roof, HVAC, etc. and to provide for these stubs in the precast or cast in place structures.

3.3 Setting Drainage Castings

1. Frame castings for grates and covers of basins, manholes and inlets shall be set in accordance with Section 201.63 of the Standard Specifications.
2. The final setting of frames shall be performed after the binder course paving has been placed so as to match the finished grade of the top course. At the option of the Contractor, binder course may pave over the structure, which shall be protected, with a steel plate. Pavement shall then be removed and the frame set to proper line, square to the curb line, and at the proper grade relative to finished grade. A concrete collar shall be poured completely around the frame to the top of binder course.
3. Not Applicable.
4. Castings shall be set to the following dimensions:
 - (1) Catch Basin Frames and Grates: 1" below adjacent finished grade (set concrete collar at depth to accept full thickness of top course at frame. Rake out the pavement to form a "hopper" approximately two feet on each side of the casting. Do not allow a "feather edge" of pavement.
5. Manholes, Frame and Cover: flush with Finished Grade.
6. Castings in landscaped or vegetated areas shall be set as follows:
 - (1) Frames and Grates for Catch Basins, Drop Inlets, Area/Yard Drains shall be set at the design grade; contractor shall take care to assure positive pitch of all landscape areas to the drainage structure. Set grates in waterway as per plans;
 - (2) Drop Inlets with Flush Tops shall be installed as per the details, and set flush so they do not create a safety hazard to vehicles on adjacent roadways.
 - (3) Inlets shall be protected against scour, or from being bypassed by storm flows.

3.4 Field Quality Control

1. Prior to paving, the Storm Drain Pipes shall be inspected by the Engineer for line and grade, as follows:
 - (1) Contractor shall supply Engineer with a written report showing the surveyed elevations of the inverts of each drain pipe, at each drainage structure, the actual distance between the structures, and the computed slope of the pipe.
 - (2) Contractor shall provide men and materials to allow Engineer to visually inspect each pipe between structures.
2. Test Method: Lamp and Mirrors on pole (to allow inspection without entering confined space structure).
3. If pipe is observed to be deflected or distorted so that at least $\frac{3}{4}$ of the full diameter of the pipe (e.g. "3/4 moon") is not visible between structures, Contractor shall remove and replace the pipe.

3.5 Protection and Cleanup

1. During construction, contractor shall conduct operations so that silt and sediments do not flow into or accumulate in the storm drainage system.
2. Throughout construction, contractor shall install and maintain all necessary erosion and sedimentation control measures, inspect and maintain all such measures after each storm event, and remove accumulated sediments around or in catch basins.
3. Upon substantial completion of construction and prior to final closeout, contractor shall thoroughly clear out all catch basins in the work area, and any sediments which may have washed into storm drains shall be flushed out so pipes are clear.

Part 4 – Measurement and Payment

- 4.1 The work under this Section shall be performed under the Contract Stipulated Price without adjustment, with the exception of any Unit Price Work specified below:
- 4.2 Unit Price Items: The following items will be measured in place according to the limits specified herein and paid for at the contract unit price.

Note: All unit price items shall include labor, tools, equipment, materials, compacting, dewatering, excavations, backfills, shoring, grading, and any other necessary work to complete the item as specified and as shown on plans. The following are additional requirements for each item.

Item 4, 12" HDPE Drain, will be measured and paid for at the contract unit price, per linear foot, complete in place, which price shall be full compensation for all materials, labor and equipment, bedding and backfill, pipe and pipe fittings, end section and stone, dewatering, and all incidental work.

Item 5, HDPE Flared End Section with Stone Discharge Apron, will be measured and paid for at the contract unit price, per each, complete in place, which price shall be full compensation for all materials, labor and equipment, bedding and backfill, pipe and pipe fittings, end section and stone, dewatering, and all incidental work.

Excavation will be considered incidental.

Replacement borrow for insufficient or unsuitable backfill material will be paid for separately under Item 3 – To be coordinated with owner and engineer prior to replacing backfill.

Rock excavation will be paid for separately under Item 2.

Crushed stone for pipe bedding in wet conditions or in ledge will be paid for separately under Item 3-A. No payment for crushed stone will be made unless these conditions are present and approval from owner and engineer is given prior to the work being performed.

END OF SECTION 02722



**THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS**

Prevailing Wage Rates

**As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H**

CHARLES D. BAKER
Governor

ROSALIN ACOSTA
Secretary

KARYN E. POLITO
Lt. Governor

WILLIAM D MCKINNEY
Director

Awarding Authority: Town of Egremont
Contract Number: E2617 **City/Town:** EGREMONT
Description of Work: Paving and minor drainage improvements on Baldwin Hill Road South between Townhouse Hill Road and Main Street in Egremont.
Job Location: Baldwin Hill Road South, Egremont, MA

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards (“DLS”) if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F “rental of equipment” contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee’s name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$10.89	\$0.00	\$53.95
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$10.89	\$0.00	\$54.02
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$10.89	\$0.00	\$54.14
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$92.97	\$9.90	\$21.15	\$0.00	\$124.02
	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	06/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	12/01/2018	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	06/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	12/01/2019	\$29.75	\$7.70	\$12.00	\$0.00	\$49.45
	06/01/2020	\$30.40	\$7.70	\$12.00	\$0.00	\$50.10
	12/01/2020	\$31.05	\$7.70	\$12.00	\$0.00	\$50.75
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.93	\$7.70	\$13.04	\$0.00	\$48.67
	06/01/2018	\$28.68	\$7.70	\$13.04	\$0.00	\$49.42
	12/01/2018	\$29.42	\$7.70	\$13.04	\$0.00	\$50.16
	06/01/2019	\$30.19	\$7.70	\$13.04	\$0.00	\$50.93
	12/01/2019	\$30.96	\$7.70	\$13.04	\$0.00	\$51.70
	06/01/2020	\$31.75	\$7.70	\$13.04	\$0.00	\$52.49
	12/01/2020	\$32.54	\$7.70	\$13.04	\$0.00	\$53.28
	06/01/2021	\$33.36	\$7.70	\$13.04	\$0.00	\$54.10
	12/01/2021	\$34.17	\$7.70	\$13.04	\$0.00	\$54.91
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	12/01/2017	\$32.31	\$11.50	\$6.60	\$0.00	\$50.41
	06/01/2018	\$33.21	\$11.50	\$6.60	\$0.00	\$51.31
	12/01/2018	\$34.11	\$11.50	\$6.60	\$0.00	\$52.21
	06/01/2019	\$35.01	\$11.50	\$6.60	\$0.00	\$53.11
	12/01/2019	\$35.91	\$11.50	\$6.60	\$0.00	\$54.01
	06/01/2020	\$36.81	\$11.50	\$6.60	\$0.00	\$54.91
	12/01/2020	\$37.71	\$11.50	\$6.60	\$0.00	\$55.81
ASPHALT RAKER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
	12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	06/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	12/01/2018	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	06/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	12/01/2019	\$29.75	\$7.70	\$12.00	\$0.00	\$49.45
	06/01/2020	\$30.40	\$7.70	\$12.00	\$0.00	\$50.10
	12/01/2020	\$31.05	\$7.70	\$12.00	\$0.00	\$50.75
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.93	\$7.70	\$13.04	\$0.00	\$48.67
	06/01/2018	\$28.68	\$7.70	\$13.04	\$0.00	\$49.42
	12/01/2018	\$29.42	\$7.70	\$13.04	\$0.00	\$50.16
	06/01/2019	\$30.19	\$7.70	\$13.04	\$0.00	\$50.93
	12/01/2019	\$30.96	\$7.70	\$13.04	\$0.00	\$51.70
	06/01/2020	\$31.75	\$7.70	\$13.04	\$0.00	\$52.49
	12/01/2020	\$32.54	\$7.70	\$13.04	\$0.00	\$53.28
	06/01/2021	\$33.36	\$7.70	\$13.04	\$0.00	\$54.10
	12/01/2021	\$34.17	\$7.70	\$13.04	\$0.00	\$54.91

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2017	\$42.92	\$6.97	\$16.21	\$0.00	\$66.10
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Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
2	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
3	70	\$30.04	\$6.97	\$11.35	\$0.00	\$48.36
4	75	\$32.19	\$6.97	\$12.16	\$0.00	\$51.32
5	80	\$34.34	\$6.97	\$12.97	\$0.00	\$54.28
6	85	\$36.48	\$6.97	\$13.78	\$0.00	\$57.23
7	90	\$38.63	\$6.97	\$14.59	\$0.00	\$60.19
8	95	\$40.77	\$6.97	\$15.40	\$0.00	\$63.14

Notes:

Apprentice to Journeyworker Ratio:1:5

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)</i>	03/01/2018	\$40.56	\$10.75	\$18.14	\$0.00	\$69.45
	08/01/2018	\$41.91	\$10.75	\$18.27	\$0.00	\$70.93
	02/01/2019	\$42.46	\$10.75	\$18.27	\$0.00	\$71.48
	08/01/2019	\$43.81	\$10.75	\$18.41	\$0.00	\$72.97
	02/01/2020	\$44.36	\$10.75	\$18.41	\$0.00	\$73.52
	08/01/2020	\$45.71	\$10.75	\$18.56	\$0.00	\$75.02
	02/01/2021	\$46.26	\$10.75	\$18.56	\$0.00	\$75.57
	08/01/2021	\$47.66	\$10.75	\$18.72	\$0.00	\$77.13
	02/01/2022	\$48.19	\$10.75	\$18.72	\$0.00	\$77.66

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Springfield/Pittsfield

Effective Date - 03/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.28	\$10.75	\$18.14	\$0.00	\$49.17
2	60	\$24.34	\$10.75	\$18.14	\$0.00	\$53.23
3	70	\$28.39	\$10.75	\$18.14	\$0.00	\$57.28
4	80	\$32.45	\$10.75	\$18.14	\$0.00	\$61.34
5	90	\$36.50	\$10.75	\$18.14	\$0.00	\$65.39

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.96	\$10.75	\$18.27	\$0.00	\$49.98
2	60	\$25.15	\$10.75	\$18.27	\$0.00	\$54.17
3	70	\$29.34	\$10.75	\$18.27	\$0.00	\$58.36
4	80	\$33.53	\$10.75	\$18.27	\$0.00	\$62.55
5	90	\$37.72	\$10.75	\$18.27	\$0.00	\$66.74

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
ENGINEERS LOCAL 98	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2017	\$38.60	\$7.70	\$14.95	\$0.00	\$61.25
LABORERS - FOUNDATION AND MARINE	06/01/2018	\$39.55	\$7.70	\$14.95	\$0.00	\$62.20
	12/01/2018	\$40.50	\$7.70	\$14.95	\$0.00	\$63.15
	06/01/2019	\$41.50	\$7.70	\$14.95	\$0.00	\$64.15
	12/01/2019	\$42.50	\$7.70	\$14.95	\$0.00	\$65.15
	06/01/2020	\$43.49	\$7.70	\$14.95	\$0.00	\$66.14
	12/01/2020	\$44.47	\$7.70	\$14.95	\$0.00	\$67.12
	06/01/2021	\$45.49	\$7.70	\$14.95	\$0.00	\$68.14
	12/01/2021	\$46.50	\$7.70	\$14.95	\$0.00	\$69.15

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS LOCAL 108 - BERKSHIRE COUNTY</i>	03/05/2018	\$36.56	\$8.26	\$15.00	\$0.00	\$59.82
	09/05/2018	\$37.60	\$8.26	\$15.00	\$0.00	\$60.86
	03/04/2019	\$38.64	\$8.26	\$15.00	\$0.00	\$61.90

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER - Local 108 Berkshire

Effective Date - 03/05/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.28	\$8.26	\$1.22	\$0.00	\$27.76
2	60	\$21.94	\$8.26	\$1.22	\$0.00	\$31.42
3	70	\$25.59	\$8.26	\$11.34	\$0.00	\$45.19
4	75	\$27.42	\$8.26	\$11.34	\$0.00	\$47.02
5	80	\$29.25	\$8.26	\$12.56	\$0.00	\$50.07
6	80	\$29.25	\$8.26	\$12.56	\$0.00	\$50.07
7	90	\$32.90	\$8.26	\$13.78	\$0.00	\$54.94
8	90	\$32.90	\$8.26	\$13.78	\$0.00	\$54.94

Effective Date - 09/05/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.80	\$8.26	\$1.22	\$0.00	\$28.28
2	60	\$22.56	\$8.26	\$1.22	\$0.00	\$32.04
3	70	\$26.32	\$8.26	\$11.34	\$0.00	\$45.92
4	75	\$28.20	\$8.26	\$11.34	\$0.00	\$47.80
5	80	\$30.08	\$8.26	\$12.56	\$0.00	\$50.90
6	80	\$30.08	\$8.26	\$12.56	\$0.00	\$50.90
7	90	\$33.84	\$8.26	\$13.78	\$0.00	\$55.88
8	90	\$33.84	\$8.26	\$13.78	\$0.00	\$55.88

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$25.93/ 3&4 \$30.77/ 5&6 \$46.41/ 7&8 \$51.29

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME	10/01/2017	\$21.95	\$7.07	\$7.86	\$0.00	\$36.88
CARPENTERS LOCAL 108 - BERKSHIRE COUNTY	04/01/2018	\$22.33	\$7.07	\$7.86	\$0.00	\$37.26
	10/01/2018	\$22.71	\$7.07	\$7.86	\$0.00	\$37.64
	04/01/2019	\$23.10	\$7.07	\$7.86	\$0.00	\$38.03
	10/01/2019	\$23.49	\$7.07	\$7.86	\$0.00	\$38.42

As of 9/1/09 Carpentry work on wood-frame WEATHERIZATION projects shall be paid the WOOD FRAME CARPENTER rate.

Apprentice - CARPENTER (Wood Frame) - Local 108 Berkshire

Effective Date - 10/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$13.17	\$7.07	\$0.00	\$0.00	\$20.24
2	60	\$13.17	\$7.07	\$0.00	\$0.00	\$20.24
3	65	\$14.27	\$7.07	\$7.86	\$0.00	\$29.20
4	70	\$15.37	\$7.07	\$7.86	\$0.00	\$30.30
5	75	\$16.46	\$7.07	\$7.86	\$0.00	\$31.39
6	80	\$17.56	\$7.07	\$7.86	\$0.00	\$32.49
7	85	\$18.66	\$7.07	\$7.86	\$0.00	\$33.59
8	90	\$19.76	\$7.07	\$7.86	\$0.00	\$34.69

Effective Date - 04/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$13.40	\$7.07	\$0.00	\$0.00	\$20.47
2	60	\$13.40	\$7.07	\$0.00	\$0.00	\$20.47
3	65	\$14.51	\$7.07	\$7.86	\$0.00	\$29.44
4	70	\$15.63	\$7.07	\$7.86	\$0.00	\$30.56
5	75	\$16.75	\$7.07	\$7.86	\$0.00	\$31.68
6	80	\$17.86	\$7.07	\$7.86	\$0.00	\$32.79
7	85	\$18.98	\$7.07	\$7.86	\$0.00	\$33.91
8	90	\$20.10	\$7.07	\$7.86	\$0.00	\$35.03

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$16.95/ 3&4 \$23.89/ 5&6 \$30.30/ 7&8 \$32.49

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING	01/01/2018	\$39.11	\$12.30	\$17.64	\$0.30	\$69.35
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	07/01/2018	\$40.57	\$12.30	\$17.64	\$0.30	\$70.81
	01/01/2019	\$41.15	\$12.30	\$17.64	\$0.30	\$71.39
	07/01/2019	\$42.62	\$12.30	\$17.64	\$0.30	\$72.86
	01/01/2020	\$43.19	\$12.30	\$17.64	\$0.30	\$73.43

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.56	\$12.30	\$15.41	\$0.00	\$47.27
2	60	\$23.47	\$12.30	\$17.64	\$0.30	\$53.71
3	65	\$25.42	\$12.30	\$17.64	\$0.30	\$55.66
4	70	\$27.38	\$12.30	\$17.64	\$0.30	\$57.62
5	75	\$29.33	\$12.30	\$17.64	\$0.30	\$59.57
6	80	\$31.29	\$12.30	\$17.64	\$0.30	\$61.53
7	90	\$35.20	\$12.30	\$17.64	\$0.30	\$65.44

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.29	\$12.30	\$15.41	\$0.00	\$48.00
2	60	\$24.34	\$12.30	\$17.64	\$0.30	\$54.58
3	65	\$26.37	\$12.30	\$17.64	\$0.30	\$56.61
4	70	\$28.40	\$12.30	\$17.64	\$0.30	\$58.64
5	75	\$30.43	\$12.30	\$17.64	\$0.30	\$60.67
6	80	\$32.46	\$12.30	\$17.64	\$0.30	\$62.70
7	90	\$36.51	\$12.30	\$17.64	\$0.30	\$66.75

Notes:

Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
LABORERS - ZONE 4 (BUILDING & SITE)	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
OPERATING ENGINEERS LOCAL 98	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CRANE OPERATOR	12/01/2017	\$37.68	\$10.99	\$13.12	\$0.00	\$61.79
OPERATING ENGINEERS LOCAL 98	06/01/2018	\$38.29	\$10.99	\$13.39	\$0.00	\$62.67
	12/01/2018	\$38.89	\$10.99	\$13.66	\$0.00	\$63.54
	06/01/2019	\$39.40	\$10.99	\$13.93	\$0.00	\$64.32
	12/01/2019	\$40.00	\$10.99	\$14.20	\$0.00	\$65.19

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 3</i>	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.71	\$7.85	\$0.00	\$0.00	\$33.56
2	55	\$28.28	\$7.85	\$3.66	\$0.00	\$39.79
3	60	\$30.85	\$7.85	\$3.99	\$0.00	\$42.69
4	65	\$33.42	\$7.85	\$4.32	\$0.00	\$45.59
5	70	\$35.99	\$7.85	\$14.11	\$0.00	\$57.95
6	75	\$38.56	\$7.85	\$14.44	\$0.00	\$60.85
7	80	\$41.13	\$7.85	\$14.77	\$0.00	\$63.75
8	90	\$46.27	\$7.85	\$15.44	\$0.00	\$69.56

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$37.65	\$7.70	\$14.75	\$0.00	\$60.10
	06/01/2018	\$38.60	\$7.70	\$14.75	\$0.00	\$61.05
	12/01/2018	\$39.55	\$7.70	\$14.75	\$0.00	\$62.00
	06/01/2019	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	12/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$38.65	\$7.70	\$14.75	\$0.00	\$61.10
	06/01/2018	\$39.60	\$7.70	\$14.75	\$0.00	\$62.05
	12/01/2018	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	06/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
	12/01/2019	\$42.55	\$7.70	\$14.75	\$0.00	\$65.00

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$38.40	\$7.70	\$14.75	\$0.00	\$60.85
	06/01/2018	\$39.35	\$7.70	\$14.75	\$0.00	\$61.80
	12/01/2018	\$40.30	\$7.70	\$14.75	\$0.00	\$62.75
	06/01/2019	\$41.30	\$7.70	\$14.75	\$0.00	\$63.75
	12/01/2019	\$42.30	\$7.70	\$14.75	\$0.00	\$64.75

For apprentice rates see "Apprentice- LABORER"

DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$38.65	\$7.70	\$14.75	\$0.00	\$61.10
	06/01/2018	\$39.60	\$7.70	\$14.75	\$0.00	\$62.05
	12/01/2018	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	06/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
	12/01/2019	\$42.55	\$7.70	\$14.75	\$0.00	\$65.00

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$38.40	\$7.70	\$14.75	\$0.00	\$60.85
	06/01/2018	\$39.35	\$7.70	\$14.75	\$0.00	\$61.80
	12/01/2018	\$40.30	\$7.70	\$14.75	\$0.00	\$62.75
	06/01/2019	\$41.30	\$7.70	\$14.75	\$0.00	\$63.75
	12/01/2019	\$42.30	\$7.70	\$14.75	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$37.65	\$7.70	\$14.75	\$0.00	\$60.10
	06/01/2018	\$38.60	\$7.70	\$14.75	\$0.00	\$61.05
	12/01/2018	\$39.55	\$7.70	\$14.75	\$0.00	\$62.00
	06/01/2019	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	12/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$61.98	\$9.90	\$21.15	\$0.00	\$93.03
	08/01/2018	\$65.20	\$9.90	\$21.15	\$0.00	\$96.25
	08/01/2019	\$68.52	\$9.90	\$21.15	\$0.00	\$99.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$44.27	\$9.90	\$21.15	\$0.00	\$75.32
	08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$66.41	\$9.90	\$21.15	\$0.00	\$97.46
	08/01/2018	\$69.86	\$9.90	\$21.15	\$0.00	\$100.91
	08/01/2019	\$73.41	\$9.90	\$21.15	\$0.00	\$104.46
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$92.97	\$9.90	\$21.15	\$0.00	\$124.02
	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
ELECTRICIAN (Including Core Drilling) <i>ELECTRICIANS LOCAL 7</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 7

Effective Date - 12/31/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.20	\$5.40	\$0.49	\$0.00	\$22.09
2	45	\$18.23	\$5.40	\$0.55	\$0.00	\$24.18
3	50	\$20.26	\$10.00	\$6.91	\$0.00	\$37.17
4	55	\$22.28	\$10.00	\$6.97	\$0.00	\$39.25
5	65	\$26.33	\$10.00	\$8.09	\$0.00	\$44.42
6	70	\$28.36	\$10.00	\$9.15	\$0.00	\$47.51

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.48	\$5.55	\$0.49	\$0.00	\$22.52
2	45	\$18.54	\$5.55	\$0.56	\$0.00	\$24.65
3	50	\$20.61	\$10.25	\$6.92	\$0.00	\$37.78
4	55	\$22.67	\$10.25	\$6.98	\$0.00	\$39.90
5	65	\$26.79	\$10.25	\$8.10	\$0.00	\$45.14
6	70	\$28.85	\$10.25	\$9.17	\$0.00	\$48.27

Notes:

Steps 1-2 are 1000 hrs; Steps 3-6 are 1500 hrs.

Apprentice to Journeyworker Ratio:2:3****

ELEVATOR CONSTRUCTOR	01/01/2017	\$49.90	\$15.28	\$15.71	\$0.00	\$80.89
<i>ELEVATOR CONSTRUCTORS LOCAL 41</i>						

Apprentice - ELEVATOR CONSTRUCTOR - Local 41

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.95	\$15.28	\$15.71	\$0.00	\$55.94
2	55	\$27.45	\$15.28	\$15.71	\$0.00	\$58.44
3	65	\$32.44	\$15.28	\$15.71	\$0.00	\$63.43
4	70	\$34.93	\$15.28	\$15.71	\$0.00	\$65.92
5	80	\$39.92	\$15.28	\$15.71	\$0.00	\$70.91

Notes:

Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER	01/01/2017	\$34.93	\$15.28	\$15.71	\$0.00	\$65.92
<i>ELEVATOR CONSTRUCTORS LOCAL 41</i>						

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FENCE & BEAM RAIL ERECTOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$31.23
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 7</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE <i>LOCAL 7</i> / COMMISSIONING <i>ELECTRICIANS</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 98 Class 3

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.19	\$10.99	\$13.12	\$0.00	\$44.30
2	70	\$23.56	\$10.99	\$13.12	\$0.00	\$47.67
3	80	\$26.92	\$10.99	\$13.12	\$0.00	\$51.03
4	90	\$30.29	\$10.99	\$13.12	\$0.00	\$54.40

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.56	\$10.99	\$13.39	\$0.00	\$44.94
2	70	\$23.98	\$10.99	\$13.39	\$0.00	\$48.36
3	80	\$27.41	\$10.99	\$13.39	\$0.00	\$51.79
4	90	\$30.83	\$10.99	\$13.39	\$0.00	\$55.21

Notes:

Steps 1-2 are 1000 hrs.; Steps 3-4 are 2000 hrs.

Apprentice to Journeyworker Ratio:1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	12/01/2017	\$21.50	\$7.70	\$13.04	\$0.00	\$42.24
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	06/01/2018	\$21.50	\$7.70	\$13.04	\$0.00	\$42.24
	12/01/2018	\$22.50	\$7.70	\$13.04	\$0.00	\$43.24
	06/01/2019	\$22.50	\$7.70	\$13.04	\$0.00	\$43.24
	12/01/2019	\$23.50	\$7.70	\$13.04	\$0.00	\$44.24
	06/01/2020	\$23.50	\$7.70	\$13.04	\$0.00	\$44.24
	12/01/2020	\$24.50	\$7.70	\$13.04	\$0.00	\$45.24
	06/01/2021	\$24.50	\$7.70	\$13.04	\$0.00	\$45.24
	12/01/2021	\$24.50	\$7.70	\$13.04	\$0.00	\$45.24

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

FLOORCOVERER	03/01/2016	\$32.60	\$8.55	\$14.42	\$0.00	\$55.57
FLOORCOVERERS LOCAL 2168 ZONE III						

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone III

Effective Date - 03/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.30	\$8.55	\$1.20	\$0.00	\$26.05
2	55	\$17.93	\$8.55	\$1.20	\$0.00	\$27.68
3	60	\$19.56	\$8.55	\$10.82	\$0.00	\$38.93
4	65	\$21.19	\$8.55	\$10.82	\$0.00	\$40.56
5	70	\$22.82	\$8.55	\$12.02	\$0.00	\$43.39
6	75	\$24.45	\$8.55	\$12.02	\$0.00	\$45.02
7	80	\$26.08	\$8.55	\$13.22	\$0.00	\$47.85
8	85	\$27.71	\$8.55	\$13.22	\$0.00	\$49.48

Notes: Steps are 750 hrs.
 % After 09/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
 Step 1&2 \$24.42/ 3&4 \$28.84/ 5&6 \$43.39/ 7&8 \$47.85

Apprentice to Journeyworker Ratio:1:1

FORK LIFT <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.87	\$10.99	\$13.12	\$0.00	\$57.98
	06/01/2018	\$34.48	\$10.99	\$13.39	\$0.00	\$58.86
	12/01/2018	\$35.08	\$10.99	\$13.66	\$0.00	\$59.73
	06/01/2019	\$35.59	\$10.99	\$13.93	\$0.00	\$60.51
	12/01/2019	\$36.19	\$10.99	\$14.20	\$0.00	\$61.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATORS/LIGHTING PLANTS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$13.12	\$0.00	\$54.53
	06/01/2018	\$31.03	\$10.99	\$13.39	\$0.00	\$55.41
	12/01/2018	\$31.63	\$10.99	\$13.66	\$0.00	\$56.28
	06/01/2019	\$32.14	\$10.99	\$13.93	\$0.00	\$57.06
	12/01/2019	\$32.74	\$10.99	\$14.20	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2017	\$36.28	\$10.25	\$8.95	\$0.00	\$55.48
	06/01/2018	\$37.18	\$10.40	\$9.35	\$0.00	\$56.93
	06/01/2019	\$38.18	\$10.60	\$9.90	\$0.00	\$58.68
	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.14	\$10.25	\$1.45	\$0.00	\$29.84
2	56	\$20.41	\$10.25	\$1.45	\$0.00	\$32.11
3	63	\$22.68	\$10.25	\$1.95	\$0.00	\$34.88
4	69	\$24.94	\$10.25	\$1.95	\$0.00	\$37.14
5	75	\$27.21	\$10.25	\$2.45	\$0.00	\$39.91
6	81	\$29.48	\$10.25	\$2.45	\$0.00	\$42.18
7	88	\$31.75	\$10.25	\$8.95	\$0.00	\$50.95
8	94	\$34.01	\$10.25	\$8.95	\$0.00	\$53.21

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.59	\$10.40	\$1.60	\$0.00	\$30.59
2	56	\$20.91	\$10.40	\$1.60	\$0.00	\$32.91
3	63	\$23.24	\$10.40	\$2.10	\$0.00	\$35.74
4	69	\$25.56	\$10.40	\$2.10	\$0.00	\$38.06
5	75	\$27.89	\$10.40	\$2.60	\$0.00	\$40.89
6	81	\$30.21	\$10.40	\$2.60	\$0.00	\$43.21
7	88	\$32.53	\$10.40	\$9.35	\$0.00	\$52.28
8	94	\$34.86	\$10.40	\$9.35	\$0.00	\$54.61

Notes:

Apprentice to Journeyworker Ratio:1:3

GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 7</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

For apprentice rates see "Apprentice- ELECTRICIAN"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION</i>	09/17/2017	\$38.03	\$8.50	\$15.30	\$0.00	\$61.83
	03/17/2018	\$38.58	\$8.50	\$15.80	\$0.00	\$62.88
	09/17/2018	\$39.83	\$8.50	\$15.80	\$0.00	\$64.13
	03/17/2019	\$41.08	\$8.50	\$15.80	\$0.00	\$65.38
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION</i>	09/17/2017	\$38.03	\$8.50	\$15.30	\$0.00	\$61.83
	03/17/2018	\$38.58	\$8.50	\$15.80	\$0.00	\$62.88
	09/17/2018	\$39.83	\$8.50	\$15.80	\$0.00	\$64.13
	03/17/2019	\$41.08	\$8.50	\$15.80	\$0.00	\$65.38
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.93	\$7.70	\$13.04	\$0.00	\$48.67
	06/01/2018	\$28.68	\$7.70	\$13.04	\$0.00	\$49.42
	12/01/2018	\$29.42	\$7.70	\$13.04	\$0.00	\$50.16
	06/01/2019	\$30.19	\$7.70	\$13.04	\$0.00	\$50.93
	12/01/2019	\$30.96	\$7.70	\$13.04	\$0.00	\$51.70
	06/01/2020	\$31.75	\$7.70	\$13.04	\$0.00	\$52.49
	12/01/2020	\$32.54	\$7.70	\$13.04	\$0.00	\$53.28
	06/01/2021	\$33.36	\$7.70	\$13.04	\$0.00	\$54.10
12/01/2021	\$34.17	\$7.70	\$13.04	\$0.00	\$54.91	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	09/01/2017	\$37.67	\$11.75	\$14.20	\$0.00	\$63.62
	09/01/2018	\$39.47	\$11.75	\$14.20	\$0.00	\$65.42
	09/01/2019	\$41.47	\$11.75	\$14.20	\$0.00	\$67.42

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Springfield

Effective Date - 09/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.84	\$11.75	\$10.45	\$0.00	\$41.04
2	60	\$22.60	\$11.75	\$11.20	\$0.00	\$45.55
3	70	\$26.37	\$11.75	\$11.95	\$0.00	\$50.07
4	80	\$30.14	\$11.75	\$12.70	\$0.00	\$54.59

Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.74	\$11.75	\$10.45	\$0.00	\$41.94
2	60	\$23.68	\$11.75	\$11.20	\$0.00	\$46.63
3	70	\$27.63	\$11.75	\$11.95	\$0.00	\$51.33
4	80	\$31.58	\$11.75	\$12.70	\$0.00	\$56.03

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 12</i>	05/01/2017	\$30.50	\$6.50	\$18.55	\$0.00	\$55.55
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Apprentice - IRONWORKER - Local 12

Effective Date - 05/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.30	\$6.50	\$3.25	\$0.00	\$28.05
2	70	\$21.35	\$6.50	\$13.78	\$0.00	\$41.63
3	80	\$24.40	\$6.50	\$15.29	\$0.00	\$46.19
4	90	\$27.45	\$6.50	\$16.80	\$0.00	\$50.75

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER	12/01/2017	\$26.00	\$7.70	\$12.00	\$0.00	\$45.70
LABORERS - ZONE 4 (BUILDING & SITE)	06/01/2018	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	12/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	06/01/2019	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	12/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	06/01/2020	\$29.65	\$7.70	\$12.00	\$0.00	\$49.35
	12/01/2020	\$30.30	\$7.70	\$12.00	\$0.00	\$50.00

Apprentice - LABORER - Zone 4 Building and Site

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.60	\$7.70	\$12.00	\$0.00	\$35.30
2	70	\$18.20	\$7.70	\$12.00	\$0.00	\$37.90
3	80	\$20.80	\$7.70	\$12.00	\$0.00	\$40.50
4	90	\$23.40	\$7.70	\$12.00	\$0.00	\$43.10

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.05	\$7.70	\$12.00	\$0.00	\$35.75
2	70	\$18.73	\$7.70	\$12.00	\$0.00	\$38.43
3	80	\$21.40	\$7.70	\$12.00	\$0.00	\$41.10
4	90	\$24.08	\$7.70	\$12.00	\$0.00	\$43.78

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2017	\$27.18	\$7.70	\$13.04	\$0.00	\$47.92
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	06/01/2018	\$27.93	\$7.70	\$13.04	\$0.00	\$48.67
	12/01/2018	\$28.67	\$7.70	\$13.04	\$0.00	\$49.41
	06/01/2019	\$29.44	\$7.70	\$13.04	\$0.00	\$50.18
	12/01/2019	\$30.21	\$7.70	\$13.04	\$0.00	\$50.95
	06/01/2020	\$31.00	\$7.70	\$13.04	\$0.00	\$51.74
	12/01/2020	\$31.79	\$7.70	\$13.04	\$0.00	\$52.53
	06/01/2021	\$32.61	\$7.70	\$13.04	\$0.00	\$53.35
	12/01/2021	\$33.42	\$7.70	\$13.04	\$0.00	\$54.16

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER (Heavy and Highway) - Zone 4

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.31	\$7.70	\$13.04	\$0.00	\$37.05
2	70	\$19.03	\$7.70	\$13.04	\$0.00	\$39.77
3	80	\$21.74	\$7.70	\$13.04	\$0.00	\$42.48
4	90	\$24.46	\$7.70	\$13.04	\$0.00	\$45.20

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.76	\$7.70	\$13.04	\$0.00	\$37.50
2	70	\$19.55	\$7.70	\$13.04	\$0.00	\$40.29
3	80	\$22.34	\$7.70	\$13.04	\$0.00	\$43.08
4	90	\$25.14	\$7.70	\$13.04	\$0.00	\$45.88

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.00	\$7.70	\$12.00	\$0.00	\$45.70
	06/01/2018	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	12/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	06/01/2019	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	12/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	06/01/2020	\$29.65	\$7.70	\$12.00	\$0.00	\$49.35
	12/01/2020	\$30.30	\$7.70	\$12.00	\$0.00	\$50.00

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.00	\$7.70	\$12.00	\$0.00	\$45.70
	06/01/2018	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	12/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	06/01/2019	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	12/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	06/01/2020	\$29.65	\$7.70	\$12.00	\$0.00	\$49.35
	12/01/2020	\$30.30	\$7.70	\$12.00	\$0.00	\$50.00

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.10	\$7.70	\$12.00	\$0.00	\$45.80
	06/01/2018	\$26.85	\$7.70	\$12.00	\$0.00	\$46.55
	12/01/2018	\$27.60	\$7.70	\$12.00	\$0.00	\$47.30
	06/01/2019	\$28.35	\$7.70	\$12.00	\$0.00	\$48.05
	12/01/2019	\$29.10	\$7.70	\$12.00	\$0.00	\$48.80

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$28.00	\$7.70	\$12.00	\$0.00	\$47.70
	06/01/2018	\$28.75	\$7.70	\$12.00	\$0.00	\$48.45
	12/01/2018	\$29.50	\$7.70	\$12.00	\$0.00	\$49.20
	06/01/2019	\$30.25	\$7.70	\$12.00	\$0.00	\$49.95
	12/01/2019	\$31.00	\$7.70	\$12.00	\$0.00	\$50.70
	06/01/2020	\$31.65	\$7.70	\$12.00	\$0.00	\$51.35
	12/01/2020	\$32.30	\$7.70	\$12.00	\$0.00	\$52.00
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.00	\$7.70	\$12.00	\$0.00	\$45.70
	06/01/2018	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	12/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	06/01/2019	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	12/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	06/01/2020	\$29.65	\$7.70	\$12.00	\$0.00	\$49.35
	12/01/2020	\$30.30	\$7.70	\$12.00	\$0.00	\$50.00
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.00	\$7.70	\$12.00	\$0.00	\$45.70
	06/01/2018	\$26.75	\$7.70	\$12.00	\$0.00	\$46.45
	12/01/2018	\$27.50	\$7.70	\$12.00	\$0.00	\$47.20
	06/01/2019	\$28.25	\$7.70	\$12.00	\$0.00	\$47.95
	12/01/2019	\$29.00	\$7.70	\$12.00	\$0.00	\$48.70
	06/01/2020	\$29.65	\$7.70	\$12.00	\$0.00	\$49.35
	12/01/2020	\$30.30	\$7.70	\$12.00	\$0.00	\$50.00
This classification applies to all tree work associated with the removal of standing trees, and trimming and removal of branches and limbs when the work is not done for a utility company for the purpose of operation, maintenance or repair of utility company equipment. For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
	12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	03/01/2018	\$33.67	\$10.75	\$17.65	\$0.00	\$62.07
	08/01/2018	\$34.67	\$10.75	\$17.76	\$0.00	\$63.18
	02/01/2019	\$35.17	\$10.75	\$17.76	\$0.00	\$63.68
	08/01/2019	\$36.17	\$10.75	\$17.87	\$0.00	\$64.79
	02/01/2020	\$36.67	\$10.75	\$17.87	\$0.00	\$65.29
	08/01/2020	\$37.67	\$10.75	\$17.99	\$0.00	\$66.41
	02/01/2021	\$38.17	\$10.75	\$17.99	\$0.00	\$66.91
	08/01/2021	\$39.17	\$10.75	\$18.12	\$0.00	\$68.04
	02/01/2022	\$39.62	\$10.75	\$18.12	\$0.00	\$68.49

Apprentice - MARBLE-TILE FINISHER-Local 3 Marble/Tile (Spr/Pitt)

Effective Date - 03/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.84	\$10.75	\$17.65	\$0.00	\$45.24
2	60	\$20.20	\$10.75	\$17.65	\$0.00	\$48.60
3	70	\$23.57	\$10.75	\$17.65	\$0.00	\$51.97
4	80	\$26.94	\$10.75	\$17.65	\$0.00	\$55.34
5	90	\$30.30	\$10.75	\$17.65	\$0.00	\$58.70

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MARBLE MASONS, TILELAYERS & TERRAZZO MECH <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	02/01/2018	\$52.10	\$10.75	\$20.03	\$0.00	\$82.88
	08/01/2018	\$53.45	\$10.75	\$20.16	\$0.00	\$84.36
	02/01/2019	\$54.07	\$10.75	\$20.16	\$0.00	\$84.98
	08/01/2019	\$55.42	\$10.75	\$20.30	\$0.00	\$86.47
	02/01/2020	\$56.05	\$10.75	\$20.30	\$0.00	\$87.10
	08/01/2020	\$57.40	\$10.75	\$20.45	\$0.00	\$88.60
	02/01/2021	\$58.04	\$10.75	\$20.45	\$0.00	\$89.24
	08/01/2021	\$59.44	\$10.75	\$20.61	\$0.00	\$90.80
	02/01/2022	\$60.01	\$10.75	\$20.61	\$0.00	\$91.37

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE-TILE-TERRAZZO MECH - Local 3 Marble/Tile (Spr/Pitt)

Effective Date - 02/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.05	\$10.75	\$20.03	\$0.00	\$56.83
2	60	\$31.26	\$10.75	\$20.03	\$0.00	\$62.04
3	70	\$36.47	\$10.75	\$20.03	\$0.00	\$67.25
4	80	\$41.68	\$10.75	\$20.03	\$0.00	\$72.46
5	90	\$46.89	\$10.75	\$20.03	\$0.00	\$77.67

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.73	\$10.75	\$20.16	\$0.00	\$57.64
2	60	\$32.07	\$10.75	\$20.16	\$0.00	\$62.98
3	70	\$37.42	\$10.75	\$20.16	\$0.00	\$68.33
4	80	\$42.76	\$10.75	\$20.16	\$0.00	\$73.67
5	90	\$48.11	\$10.75	\$20.16	\$0.00	\$79.02

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 3) <i>MILLWRIGHTS LOCAL 1121 - Zone 3</i>	10/01/2017	\$34.64	\$9.90	\$18.50	\$0.00	\$63.04
	04/01/2018	\$35.46	\$9.90	\$18.50	\$0.00	\$63.86
	10/01/2018	\$36.29	\$9.90	\$18.50	\$0.00	\$64.69
	04/01/2019	\$37.11	\$9.90	\$18.50	\$0.00	\$65.51

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 3

Effective Date - 10/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.05	\$9.90	\$5.31	\$0.00	\$34.26
2	65	\$22.52	\$9.90	\$15.13	\$0.00	\$47.55
3	75	\$25.98	\$9.90	\$16.10	\$0.00	\$51.98
4	85	\$29.44	\$9.90	\$17.06	\$0.00	\$56.40

Effective Date - 04/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.50	\$9.90	\$5.31	\$0.00	\$34.71
2	65	\$23.05	\$9.90	\$15.13	\$0.00	\$48.08
3	75	\$26.60	\$9.90	\$16.10	\$0.00	\$52.60
4	85	\$30.14	\$9.90	\$17.06	\$0.00	\$57.10

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER LABORERS - ZONE 4 (BUILDING & SITE)	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98	12/01/2017	\$29.34	\$10.99	\$13.12	\$0.00	\$53.45
	06/01/2018	\$29.95	\$10.99	\$13.39	\$0.00	\$54.33
	12/01/2018	\$30.55	\$10.99	\$13.66	\$0.00	\$55.20
	06/01/2019	\$31.06	\$10.99	\$13.93	\$0.00	\$55.98
	12/01/2019	\$31.66	\$10.99	\$14.20	\$0.00	\$56.85

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98	12/01/2017	\$27.36	\$10.99	\$13.12	\$0.00	\$51.47
	06/01/2018	\$27.97	\$10.99	\$13.39	\$0.00	\$52.35
	12/01/2018	\$28.57	\$10.99	\$13.66	\$0.00	\$53.22
	06/01/2019	\$29.08	\$10.99	\$13.93	\$0.00	\$54.00
	12/01/2019	\$29.68	\$10.99	\$14.20	\$0.00	\$54.87

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 - ZONE 3	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.30	\$7.85	\$0.00	\$0.00	\$23.15
2	55	\$16.83	\$7.85	\$1.57	\$0.00	\$26.25
3	60	\$18.36	\$7.85	\$1.71	\$0.00	\$27.92
4	65	\$19.89	\$7.85	\$1.85	\$0.00	\$29.59
5	70	\$21.42	\$7.85	\$11.45	\$0.00	\$40.72
6	75	\$22.95	\$7.85	\$11.59	\$0.00	\$42.39
7	80	\$24.48	\$7.85	\$11.73	\$0.00	\$44.06
8	90	\$27.54	\$7.85	\$12.02	\$0.00	\$47.41

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/01/2017	\$27.18	\$7.70	\$13.04	\$0.00	\$47.92
	06/01/2018	\$27.93	\$7.70	\$13.04	\$0.00	\$48.67
	12/01/2018	\$28.67	\$7.70	\$13.04	\$0.00	\$49.41
	06/01/2019	\$29.44	\$7.70	\$13.04	\$0.00	\$50.18
	12/01/2019	\$30.21	\$7.70	\$13.04	\$0.00	\$50.95
	06/01/2020	\$31.00	\$7.70	\$13.04	\$0.00	\$51.74
	12/01/2020	\$31.79	\$7.70	\$13.04	\$0.00	\$52.53
	06/01/2021	\$32.61	\$7.70	\$13.04	\$0.00	\$53.35
	12/01/2021	\$33.42	\$7.70	\$13.04	\$0.00	\$54.16

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2012	\$30.28	\$9.07	\$8.00	\$0.00	\$47.35
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 (ZONE 3)	08/01/2017	\$39.42	\$9.90	\$21.15	\$0.00	\$70.47
	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 3)	08/01/2017	\$39.42	\$9.90	\$21.15	\$0.00	\$70.47
	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84

Apprentice - PILE DRIVER - Local 56 Zone 3

Effective Date - 08/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: Apprentice wages shall be no less than the following Steps;
(Same as set in Zone 1)

1\$53.19/2\$57.61/3\$62.04/4\$64.25/5\$66.47/6\$66.47/7\$70.89/8\$70.89

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
	12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBER & PIPEFITTER <i>PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION</i>	09/17/2017	\$38.03	\$8.50	\$15.30	\$0.00	\$61.83
	03/17/2018	\$38.58	\$8.50	\$15.80	\$0.00	\$62.88
	09/17/2018	\$39.83	\$8.50	\$15.80	\$0.00	\$64.13
	03/17/2019	\$41.08	\$8.50	\$15.80	\$0.00	\$65.38

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PLUMBER/PIPEFITTER - Local 104 Western

Effective Date - 09/17/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$17.11	\$8.50	\$9.05	\$0.00	\$34.66
2	50	\$19.02	\$8.50	\$9.05	\$0.00	\$36.57
3	55	\$20.92	\$8.50	\$9.05	\$0.00	\$38.47
4	60	\$22.82	\$8.50	\$9.05	\$0.00	\$40.37
5	65	\$24.72	\$8.50	\$9.05	\$0.00	\$42.27
6	70	\$26.62	\$8.50	\$9.05	\$0.00	\$44.17
7	75	\$28.52	\$8.50	\$9.05	\$0.00	\$46.07
8	80	\$30.42	\$8.50	\$9.05	\$0.00	\$47.97
9	80	\$30.42	\$8.50	\$15.30	\$0.00	\$54.22
10	80	\$30.42	\$8.50	\$15.30	\$0.00	\$54.22

Effective Date - 03/17/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$17.36	\$8.50	\$9.30	\$0.00	\$35.16
2	50	\$19.29	\$8.50	\$9.30	\$0.00	\$37.09
3	55	\$21.22	\$8.50	\$9.30	\$0.00	\$39.02
4	60	\$23.15	\$8.50	\$9.30	\$0.00	\$40.95
5	65	\$25.08	\$8.50	\$9.30	\$0.00	\$42.88
6	70	\$27.01	\$8.50	\$9.30	\$0.00	\$44.81
7	75	\$28.94	\$8.50	\$9.30	\$0.00	\$46.74
8	80	\$30.86	\$8.50	\$9.30	\$0.00	\$48.66
9	80	\$30.86	\$8.50	\$15.80	\$0.00	\$55.16
10	80	\$30.86	\$8.50	\$15.80	\$0.00	\$55.16

Notes: **1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio:**

PNEUMATIC CONTROLS (TEMP.)	09/17/2017	\$38.03	\$8.50	\$15.30	\$0.00	\$61.83
PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION	03/17/2018	\$38.58	\$8.50	\$15.80	\$0.00	\$62.88
	09/17/2018	\$39.83	\$8.50	\$15.80	\$0.00	\$64.13
	03/17/2019	\$41.08	\$8.50	\$15.80	\$0.00	\$65.38

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
	12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	06/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	12/01/2018	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	06/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	12/01/2019	\$30.00	\$7.70	\$12.00	\$0.00	\$49.70
	06/01/2020	\$30.65	\$7.70	\$12.00	\$0.00	\$50.35
	12/01/2020	\$31.30	\$7.70	\$12.00	\$0.00	\$51.00
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$28.18	\$7.70	\$13.14	\$0.00	\$49.02
	06/01/2018	\$28.93	\$7.70	\$13.14	\$0.00	\$49.77
	12/01/2018	\$29.67	\$7.70	\$13.14	\$0.00	\$50.51
	06/01/2019	\$30.44	\$7.70	\$13.14	\$0.00	\$51.28
	12/01/2019	\$31.21	\$7.70	\$13.14	\$0.00	\$52.05
	06/01/2020	\$32.00	\$7.70	\$13.14	\$0.00	\$52.84
	12/01/2020	\$32.79	\$7.70	\$13.14	\$0.00	\$53.63
	06/01/2021	\$33.61	\$7.70	\$13.14	\$0.00	\$54.45
12/01/2021	\$34.42	\$7.70	\$13.14	\$0.00	\$55.26	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 404</i>	05/01/2016	\$21.01	\$10.23	\$9.40	\$0.00	\$40.64
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2017	\$26.25	\$7.70	\$12.00	\$0.00	\$45.95
	06/01/2018	\$27.00	\$7.70	\$12.00	\$0.00	\$46.70
	12/01/2018	\$27.75	\$7.70	\$12.00	\$0.00	\$47.45
	06/01/2019	\$28.50	\$7.70	\$12.00	\$0.00	\$48.20
	12/01/2019	\$29.25	\$7.70	\$12.00	\$0.00	\$48.95
	06/01/2020	\$29.90	\$7.70	\$12.00	\$0.00	\$49.60
	12/01/2020	\$30.55	\$7.70	\$12.00	\$0.00	\$50.25
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ROOFER (Coal tar pitch) ROOFERS LOCAL 248	07/16/2017	\$32.25	\$10.00	\$13.91	\$0.00	\$56.16
	07/16/2018	\$33.65	\$10.00	\$14.01	\$0.00	\$57.66
	07/16/2019	\$35.30	\$10.00	\$14.11	\$0.00	\$59.41
For apprentice rates see "Apprentice- ROOFER"						
ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg) ROOFERS LOCAL 248	07/16/2017	\$31.75	\$10.00	\$13.41	\$0.00	\$55.16
	07/16/2018	\$33.15	\$10.00	\$13.51	\$0.00	\$56.66
	07/16/2019	\$34.80	\$10.00	\$13.61	\$0.00	\$58.41

Apprentice - ROOFER - Local 248

Effective Date - 07/16/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.05	\$10.00	\$0.00	\$0.00	\$29.05
2	65	\$20.64	\$10.00	\$13.41	\$0.00	\$44.05
3	70	\$22.23	\$10.00	\$13.41	\$0.00	\$45.64
4	75	\$23.81	\$10.00	\$13.41	\$0.00	\$47.22
5	80	\$25.40	\$10.00	\$13.41	\$0.00	\$48.81
6	85	\$26.99	\$10.00	\$13.41	\$0.00	\$50.40
7	90	\$28.58	\$10.00	\$13.41	\$0.00	\$51.99
8	95	\$30.16	\$10.00	\$13.41	\$0.00	\$53.57

Effective Date - 07/16/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.89	\$10.00	\$0.00	\$0.00	\$29.89
2	65	\$21.55	\$10.00	\$13.51	\$0.00	\$45.06
3	70	\$23.21	\$10.00	\$13.51	\$0.00	\$46.72
4	75	\$24.86	\$10.00	\$13.51	\$0.00	\$48.37
5	80	\$26.52	\$10.00	\$13.51	\$0.00	\$50.03
6	85	\$28.18	\$10.00	\$13.51	\$0.00	\$51.69
7	90	\$29.84	\$10.00	\$13.51	\$0.00	\$53.35
8	95	\$31.49	\$10.00	\$13.51	\$0.00	\$55.00

Notes:

Steps are 750 hrs.Roofers(Tear Off)1:1; Same as above

Apprentice to Journeyworker Ratio:1:3

ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248	07/16/2017	\$32.25	\$10.00	\$13.91	\$0.00	\$56.16
	07/16/2018	\$33.65	\$10.00	\$14.01	\$0.00	\$57.66
	07/16/2019	\$35.30	\$10.00	\$14.11	\$0.00	\$59.41
For apprentice rates see "Apprentice- ROOFER"						
SCRAPER OPERATING ENGINEERS LOCAL 98	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$13.12	\$0.00	\$54.53
	06/01/2018	\$31.03	\$10.99	\$13.39	\$0.00	\$55.41
	12/01/2018	\$31.63	\$10.99	\$13.66	\$0.00	\$56.28
	06/01/2019	\$32.14	\$10.99	\$13.93	\$0.00	\$57.06
	12/01/2019	\$32.74	\$10.99	\$14.20	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 63

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$14.85	\$6.21	\$4.67	\$0.00	\$25.73
2	50	\$16.50	\$6.55	\$5.19	\$0.00	\$28.24
3	55	\$18.14	\$6.88	\$9.33	\$1.03	\$35.38
4	60	\$19.79	\$7.22	\$9.33	\$1.09	\$37.43
5	65	\$21.44	\$7.55	\$9.33	\$1.15	\$39.47
6	70	\$23.09	\$7.88	\$9.33	\$1.21	\$41.51
7	75	\$24.74	\$8.22	\$9.33	\$1.27	\$43.56
8	80	\$26.39	\$9.30	\$15.18	\$1.53	\$52.40
9	85	\$28.04	\$9.64	\$15.18	\$1.59	\$54.45
10	90	\$29.69	\$9.98	\$15.18	\$1.65	\$56.50

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$15.18	\$6.21	\$4.67	\$0.00	\$26.06
2	50	\$16.87	\$6.55	\$5.19	\$0.00	\$28.61
3	55	\$18.56	\$6.88	\$9.33	\$1.04	\$35.81
4	60	\$20.24	\$7.22	\$9.33	\$1.10	\$37.89
5	65	\$21.93	\$7.55	\$9.33	\$1.16	\$39.97
6	70	\$23.62	\$7.88	\$9.33	\$1.22	\$42.05
7	75	\$25.31	\$8.22	\$9.33	\$1.29	\$44.15
8	80	\$26.99	\$9.30	\$15.18	\$1.54	\$53.01
9	85	\$28.68	\$9.64	\$15.18	\$1.61	\$55.11
10	90	\$30.37	\$9.98	\$15.18	\$1.67	\$57.20

Notes:

Apprentice to Journeyworker Ratio:1:3

SIGN ERECTOR PAINTERS LOCAL 35 - ZONE 3	06/01/2013	\$25.81	\$7.07	\$7.05	\$0.00	\$39.93
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SIGN ERECTOR - Local 35 Zone 3

Effective Date - 06/01/2013

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$12.91	\$7.07	\$0.00	\$0.00	\$19.98
2	55	\$14.20	\$7.07	\$2.45	\$0.00	\$23.72
3	60	\$15.49	\$7.07	\$2.45	\$0.00	\$25.01
4	65	\$16.78	\$7.07	\$2.45	\$0.00	\$26.30
5	70	\$18.07	\$7.07	\$7.05	\$0.00	\$32.19
6	75	\$19.36	\$7.07	\$7.05	\$0.00	\$33.48
7	80	\$20.65	\$7.07	\$7.05	\$0.00	\$34.77
8	85	\$21.94	\$7.07	\$7.05	\$0.00	\$36.06
9	90	\$23.23	\$7.07	\$7.05	\$0.00	\$37.35

Notes:
Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	01/01/2018	\$40.26	\$9.67	\$12.63	\$0.00	\$62.56
	04/01/2018	\$41.51	\$9.67	\$12.88	\$0.00	\$64.06
	01/01/2019	\$41.51	\$10.02	\$13.08	\$0.00	\$64.61

Apprentice - SPRINKLER FITTER - Local 669

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.12	\$7.75	\$0.00	\$0.00	\$25.87
2	50	\$20.13	\$7.75	\$0.00	\$0.00	\$27.88
3	55	\$22.14	\$9.67	\$6.80	\$0.00	\$38.61
4	60	\$24.16	\$9.67	\$6.80	\$0.00	\$40.63
5	65	\$26.17	\$9.67	\$7.05	\$0.00	\$42.89
6	70	\$28.18	\$9.67	\$7.05	\$0.00	\$44.90
7	75	\$30.20	\$9.67	\$7.05	\$0.00	\$46.92
8	80	\$32.21	\$9.67	\$7.05	\$0.00	\$48.93
9	85	\$34.22	\$9.67	\$7.05	\$0.00	\$50.94
10	90	\$36.23	\$9.67	\$7.05	\$0.00	\$52.95

Effective Date - 04/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.68	\$7.75	\$0.00	\$0.00	\$26.43
2	50	\$20.76	\$7.75	\$0.00	\$0.00	\$28.51
3	55	\$22.83	\$9.67	\$7.05	\$0.00	\$39.55
4	60	\$24.91	\$9.67	\$7.05	\$0.00	\$41.63
5	65	\$26.98	\$9.67	\$7.30	\$0.00	\$43.95
6	70	\$29.06	\$9.67	\$7.30	\$0.00	\$46.03
7	75	\$31.13	\$9.67	\$7.30	\$0.00	\$48.10
8	80	\$33.21	\$9.67	\$7.30	\$0.00	\$50.18
9	85	\$35.28	\$9.67	\$7.30	\$0.00	\$52.25
10	90	\$37.36	\$9.67	\$7.30	\$0.00	\$54.33

Notes:

Apprentice to Journeyworker Ratio:1:1

TELECOMMUNICATION TECHNICIAN	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
ELECTRICIANS LOCAL 7	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7

Effective Date - 12/31/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.20	\$5.40	\$0.49	\$0.00	\$22.09
2	45	\$18.23	\$5.40	\$0.55	\$0.00	\$24.18
3	50	\$20.26	\$10.00	\$6.91	\$0.00	\$37.17
4	55	\$22.28	\$10.00	\$6.97	\$0.00	\$39.25
5	65	\$26.33	\$10.00	\$8.09	\$0.00	\$44.42
6	70	\$28.36	\$10.00	\$9.15	\$0.00	\$47.51

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.48	\$5.55	\$0.49	\$0.00	\$22.52
2	45	\$18.54	\$5.55	\$0.56	\$0.00	\$24.65
3	50	\$20.61	\$10.25	\$6.92	\$0.00	\$37.78
4	55	\$22.67	\$10.25	\$6.98	\$0.00	\$39.90
5	65	\$26.79	\$10.25	\$8.10	\$0.00	\$45.14
6	70	\$28.85	\$10.25	\$9.17	\$0.00	\$48.27

Notes:

Steps are 800 hours

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS	02/01/2018	\$51.00	\$10.75	\$20.03	\$0.00	\$81.78
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	08/01/2018	\$52.35	\$10.75	\$20.16	\$0.00	\$83.26
	02/01/2019	\$52.99	\$10.75	\$20.16	\$0.00	\$83.90
	08/01/2019	\$54.34	\$10.75	\$20.30	\$0.00	\$85.39
	02/01/2020	\$54.98	\$10.75	\$20.30	\$0.00	\$86.03
	08/01/2020	\$56.33	\$10.75	\$20.45	\$0.00	\$87.53
	02/01/2021	\$56.97	\$10.75	\$20.45	\$0.00	\$88.17
	08/01/2021	\$58.37	\$10.75	\$20.61	\$0.00	\$89.73
	02/01/2022	\$58.96	\$10.75	\$20.61	\$0.00	\$90.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO FINISHER-Local 3 Marble/Tile (Spr/Ptt)

Effective Date - 02/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.50	\$10.75	\$20.03	\$0.00	\$56.28
2	60	\$30.60	\$10.75	\$20.03	\$0.00	\$61.38
3	70	\$35.70	\$10.75	\$20.03	\$0.00	\$66.48
4	80	\$40.80	\$10.75	\$20.03	\$0.00	\$71.58
5	90	\$45.90	\$10.75	\$20.03	\$0.00	\$76.68

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.18	\$10.75	\$20.16	\$0.00	\$57.09
2	60	\$31.41	\$10.75	\$20.16	\$0.00	\$62.32
3	70	\$36.65	\$10.75	\$20.16	\$0.00	\$67.56
4	80	\$41.88	\$10.75	\$20.16	\$0.00	\$72.79
5	90	\$47.12	\$10.75	\$20.16	\$0.00	\$78.03

Notes:

Apprentice to Journeyworker Ratio:1:5

TEST BORING DRILLER LABORERS - FOUNDATION AND MARINE	12/01/2017	\$38.85	\$7.70	\$14.95	\$0.00	\$61.50
	06/01/2018	\$39.80	\$7.70	\$14.95	\$0.00	\$62.45
	12/01/2018	\$40.75	\$7.70	\$14.95	\$0.00	\$63.40
	06/01/2019	\$41.75	\$7.70	\$14.95	\$0.00	\$64.40
	12/01/2019	\$42.75	\$7.70	\$14.95	\$0.00	\$65.40
	06/01/2020	\$43.74	\$7.70	\$14.95	\$0.00	\$66.39
	12/01/2020	\$44.72	\$7.70	\$14.95	\$0.00	\$67.37
	06/01/2021	\$45.74	\$7.70	\$14.95	\$0.00	\$68.39
	12/01/2021	\$46.75	\$7.70	\$14.95	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER LABORERS - FOUNDATION AND MARINE	12/01/2017	\$37.57	\$7.70	\$14.95	\$0.00	\$60.22
	06/01/2018	\$38.52	\$7.70	\$14.95	\$0.00	\$61.17
	12/01/2018	\$39.47	\$7.70	\$14.95	\$0.00	\$62.12
	06/01/2019	\$40.47	\$7.70	\$14.95	\$0.00	\$63.12
	12/01/2019	\$41.47	\$7.70	\$14.95	\$0.00	\$64.12
	06/01/2020	\$42.46	\$7.70	\$14.95	\$0.00	\$65.11
	12/01/2020	\$43.44	\$7.70	\$14.95	\$0.00	\$66.09
	06/01/2021	\$44.46	\$7.70	\$14.95	\$0.00	\$67.11
	12/01/2021	\$45.47	\$7.70	\$14.95	\$0.00	\$68.12

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$33.02	\$10.91	\$10.89	\$0.00	\$54.82
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2017	\$49.73	\$7.70	\$15.35	\$0.00	\$72.78
	06/01/2018	\$50.68	\$7.70	\$15.35	\$0.00	\$73.73
	12/01/2018	\$51.63	\$7.70	\$15.35	\$0.00	\$74.68
	06/01/2019	\$52.63	\$7.70	\$15.35	\$0.00	\$75.68
	12/01/2019	\$53.63	\$7.70	\$15.35	\$0.00	\$76.68
	06/01/2020	\$54.62	\$7.70	\$15.35	\$0.00	\$77.67
	12/01/2020	\$55.60	\$7.70	\$15.35	\$0.00	\$78.65
	06/01/2021	\$56.62	\$7.70	\$15.35	\$0.00	\$79.67
	12/01/2021	\$57.63	\$7.70	\$15.35	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2017	\$51.73	\$7.70	\$15.35	\$0.00	\$74.78
	06/01/2018	\$52.68	\$7.70	\$15.35	\$0.00	\$75.73
	12/01/2018	\$53.63	\$7.70	\$15.35	\$0.00	\$76.68
	06/01/2019	\$54.63	\$7.70	\$15.35	\$0.00	\$77.68
	12/01/2019	\$55.63	\$7.70	\$15.35	\$0.00	\$78.68
	06/01/2020	\$56.62	\$7.70	\$15.35	\$0.00	\$79.67
	12/01/2020	\$57.60	\$7.70	\$15.35	\$0.00	\$80.65
	06/01/2021	\$58.62	\$7.70	\$15.35	\$0.00	\$81.67
	12/01/2021	\$59.63	\$7.70	\$15.35	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2017	\$41.80	\$7.70	\$15.35	\$0.00	\$64.85
	06/01/2018	\$42.75	\$7.70	\$15.35	\$0.00	\$65.80
	12/01/2018	\$43.70	\$7.70	\$15.35	\$0.00	\$66.75
	06/01/2019	\$44.70	\$7.70	\$15.35	\$0.00	\$67.75
	12/01/2019	\$45.70	\$7.70	\$15.35	\$0.00	\$68.75
	06/01/2020	\$46.69	\$7.70	\$15.35	\$0.00	\$69.74
	12/01/2020	\$47.67	\$7.70	\$15.35	\$0.00	\$70.72
	06/01/2021	\$48.69	\$7.70	\$15.35	\$0.00	\$71.74
	12/01/2021	\$49.70	\$7.70	\$15.35	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2017	\$43.80	\$7.70	\$15.35	\$0.00	\$66.85
	06/01/2018	\$44.75	\$7.70	\$15.35	\$0.00	\$67.80
	12/01/2018	\$45.70	\$7.70	\$15.35	\$0.00	\$68.75
	06/01/2019	\$46.70	\$7.70	\$15.35	\$0.00	\$69.75
	12/01/2019	\$47.70	\$7.70	\$15.35	\$0.00	\$70.75
	06/01/2020	\$48.69	\$7.70	\$15.35	\$0.00	\$71.74
	12/01/2020	\$49.67	\$7.70	\$15.35	\$0.00	\$72.72
	06/01/2021	\$50.69	\$7.70	\$15.35	\$0.00	\$73.74
	12/01/2021	\$51.70	\$7.70	\$15.35	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2017	\$27.43	\$7.70	\$13.04	\$0.00	\$48.17
	06/01/2018	\$28.18	\$7.70	\$13.04	\$0.00	\$48.92
	12/01/2018	\$28.92	\$7.70	\$13.04	\$0.00	\$49.66
	06/01/2019	\$29.69	\$7.70	\$13.04	\$0.00	\$50.43
	12/01/2019	\$30.46	\$7.70	\$13.04	\$0.00	\$51.20
	06/01/2020	\$31.25	\$7.70	\$13.04	\$0.00	\$51.99
	12/01/2020	\$32.04	\$7.70	\$13.04	\$0.00	\$52.78
	06/01/2021	\$32.86	\$7.70	\$13.04	\$0.00	\$53.60
	12/01/2021	\$33.67	\$7.70	\$13.04	\$0.00	\$54.41
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 104 WESTERN DIVISION</i>	09/17/2017	\$38.03	\$8.50	\$15.30	\$0.00	\$61.83
	03/17/2018	\$38.58	\$8.50	\$15.80	\$0.00	\$62.88
	09/17/2018	\$39.83	\$8.50	\$15.80	\$0.00	\$64.13
	03/17/2019	\$41.08	\$8.50	\$15.80	\$0.00	\$65.38
	For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"					
Outside Electrical - West						
EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$39.92	\$8.00	\$12.41	\$0.00	\$60.33
	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$25.83	\$8.00	\$5.33	\$0.00	\$39.16
	09/02/2018	\$28.17	\$8.00	\$5.41	\$0.00	\$41.58
	09/01/2019	\$30.58	\$8.00	\$5.48	\$0.00	\$44.06
For apprentice rates see "Apprentice- LINEMAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
GROUNDMAN / TRUCK DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$35.22	\$8.00	\$10.82	\$0.00	\$54.04
	09/02/2018	\$37.56	\$8.00	\$10.89	\$0.00	\$56.45
	09/01/2019	\$39.97	\$8.00	\$10.96	\$0.00	\$58.93
For apprentice rates see "Apprentice- LINEMAN"						
HEAVY EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$42.26	\$8.00	\$13.08	\$0.00	\$63.34
	09/02/2018	\$44.60	\$8.00	\$13.15	\$0.00	\$65.75
	09/01/2019	\$47.01	\$8.00	\$13.22	\$0.00	\$68.23
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$46.96	\$8.00	\$15.41	\$0.00	\$70.37
	09/02/2018	\$49.30	\$8.00	\$15.48	\$0.00	\$72.78
	09/01/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$75.26

Apprentice - LINEMAN (Outside Electrical) - West Local 42

Effective Date - 09/03/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$28.18	\$8.00	\$3.35	\$0.00	\$39.53
2	65	\$30.52	\$8.00	\$3.42	\$0.00	\$41.94
3	70	\$32.87	\$8.00	\$3.49	\$0.00	\$44.36
4	75	\$35.22	\$8.00	\$5.06	\$0.00	\$48.28
5	80	\$37.57	\$8.00	\$5.13	\$0.00	\$50.70
6	85	\$39.92	\$8.00	\$5.20	\$0.00	\$53.12
7	90	\$42.26	\$8.00	\$7.28	\$0.00	\$57.54

Effective Date - 09/02/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$29.58	\$8.00	\$3.39	\$0.00	\$40.97
2	65	\$32.05	\$8.00	\$3.46	\$0.00	\$43.51
3	70	\$34.51	\$8.00	\$3.54	\$0.00	\$46.05
4	75	\$36.98	\$8.00	\$5.11	\$0.00	\$50.09
5	80	\$39.44	\$8.00	\$5.18	\$0.00	\$52.62
6	85	\$41.91	\$8.00	\$5.26	\$0.00	\$55.17
7	90	\$44.37	\$8.00	\$7.33	\$0.00	\$59.70

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$28.98	\$4.25	\$3.12	\$0.00	\$36.35
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
TRACTOR-TRAILER DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$39.92	\$8.00	\$12.41	\$0.00	\$60.33
	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						

Additional Apprentices Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

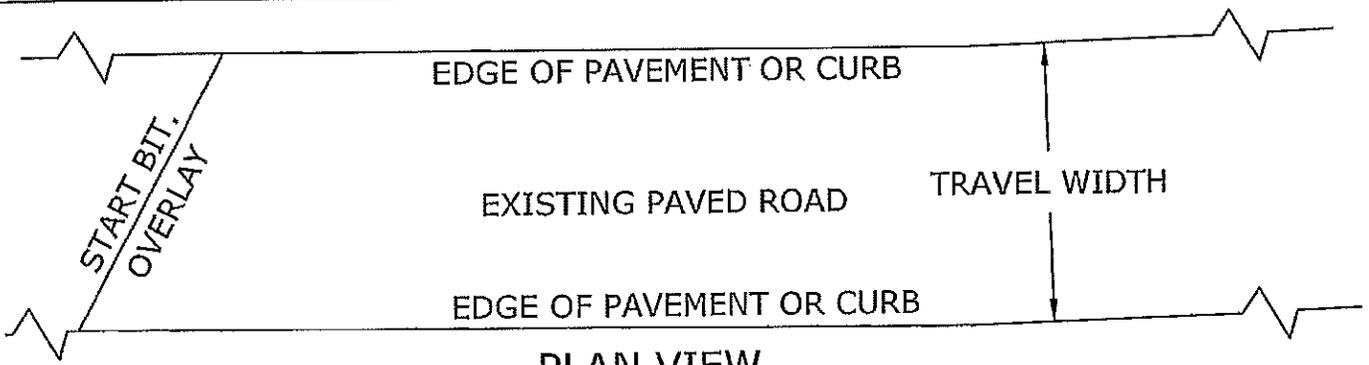
All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

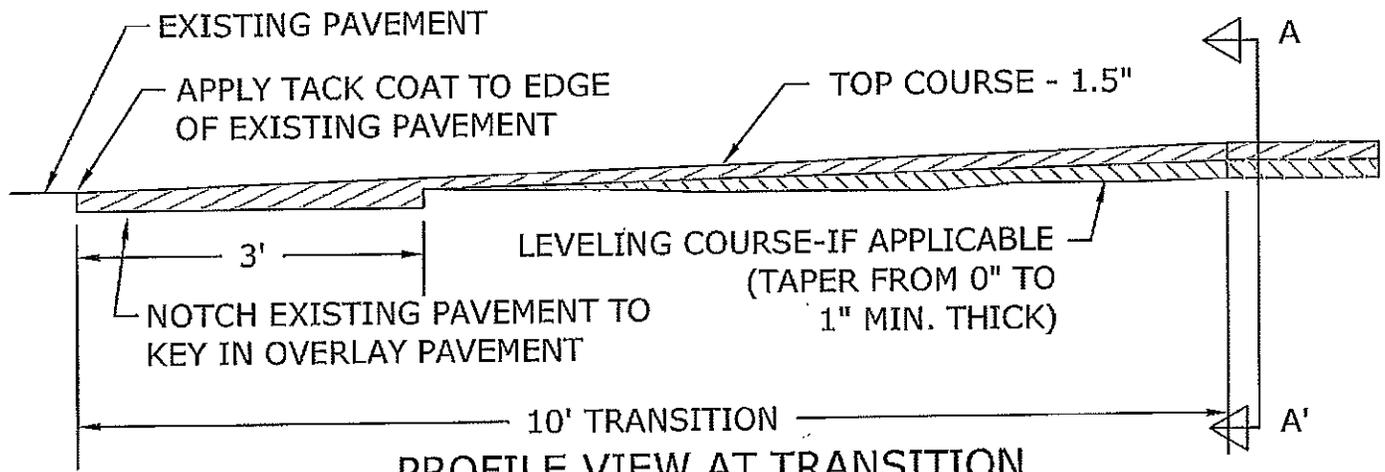
** Multiple ratios are listed in the comment field.

*** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

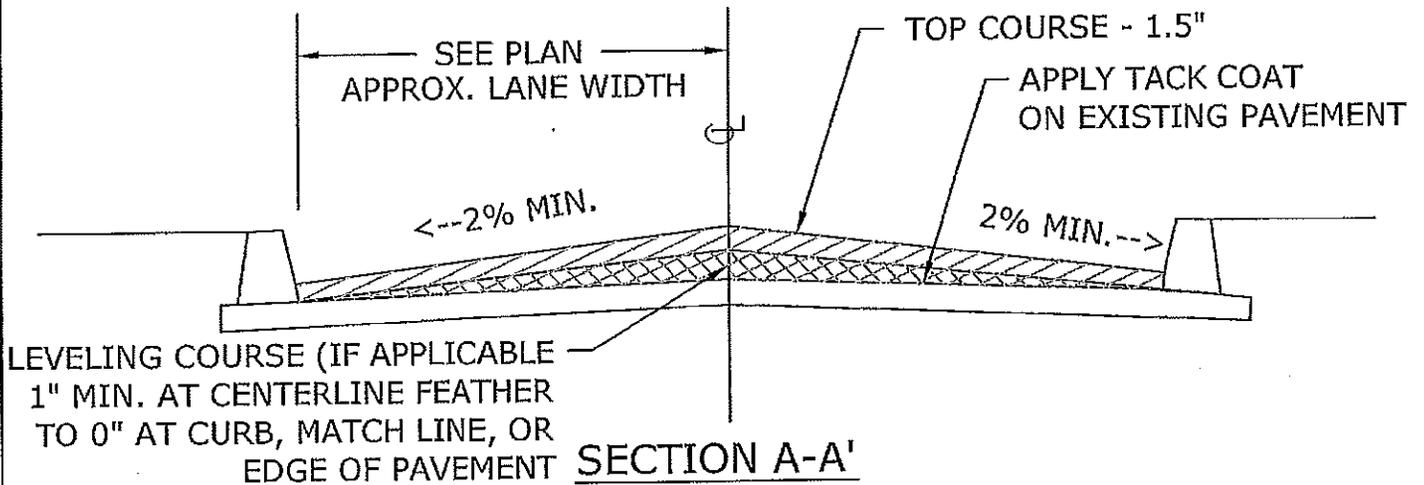
**** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.



PLAN VIEW

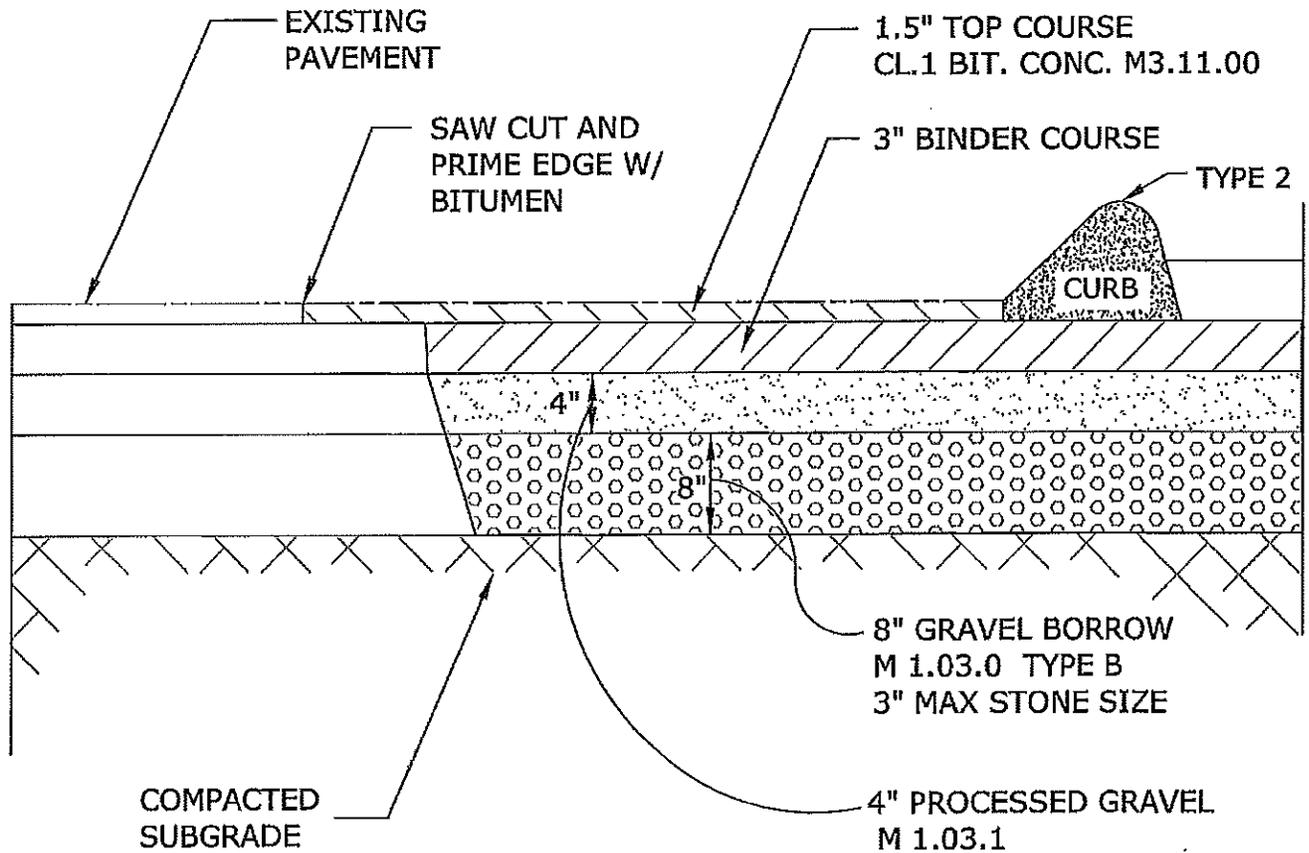


PROFILE VIEW AT TRANSITION



PAVEMENT OVERLAY

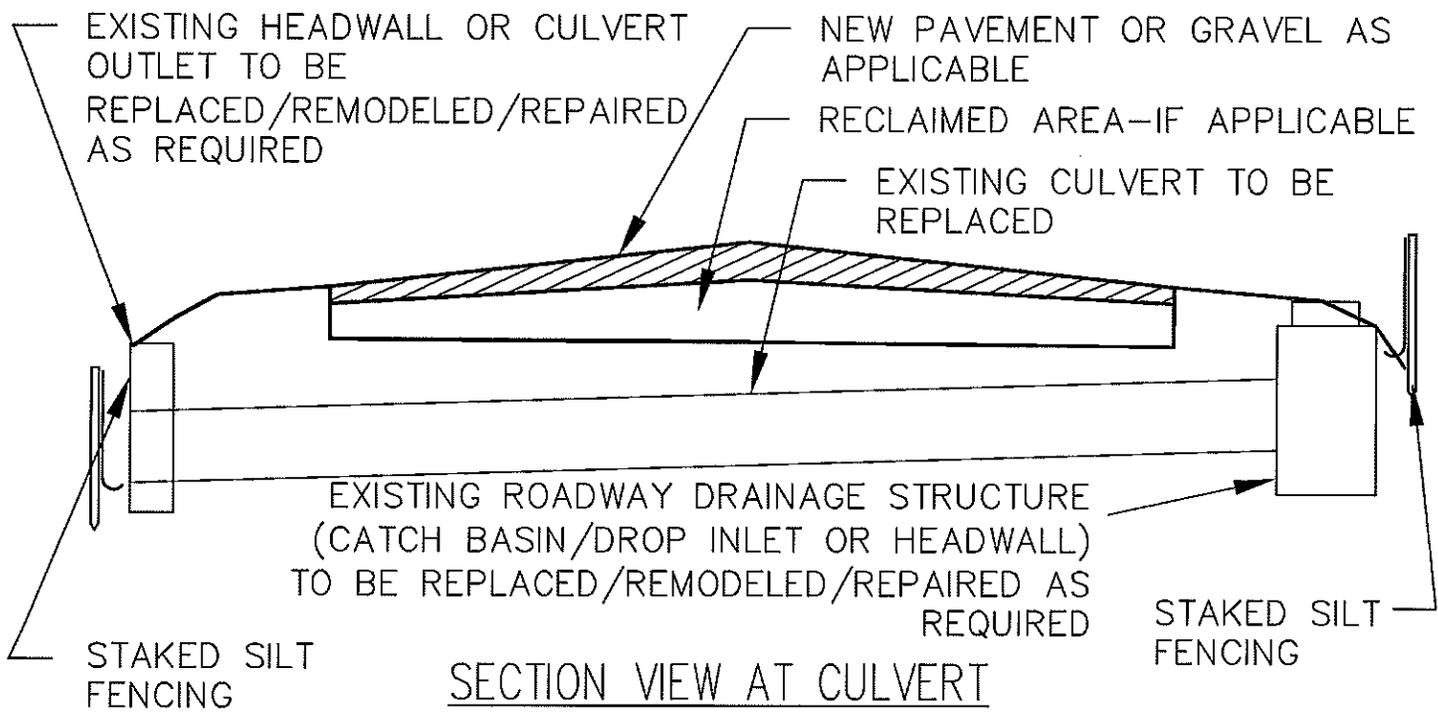
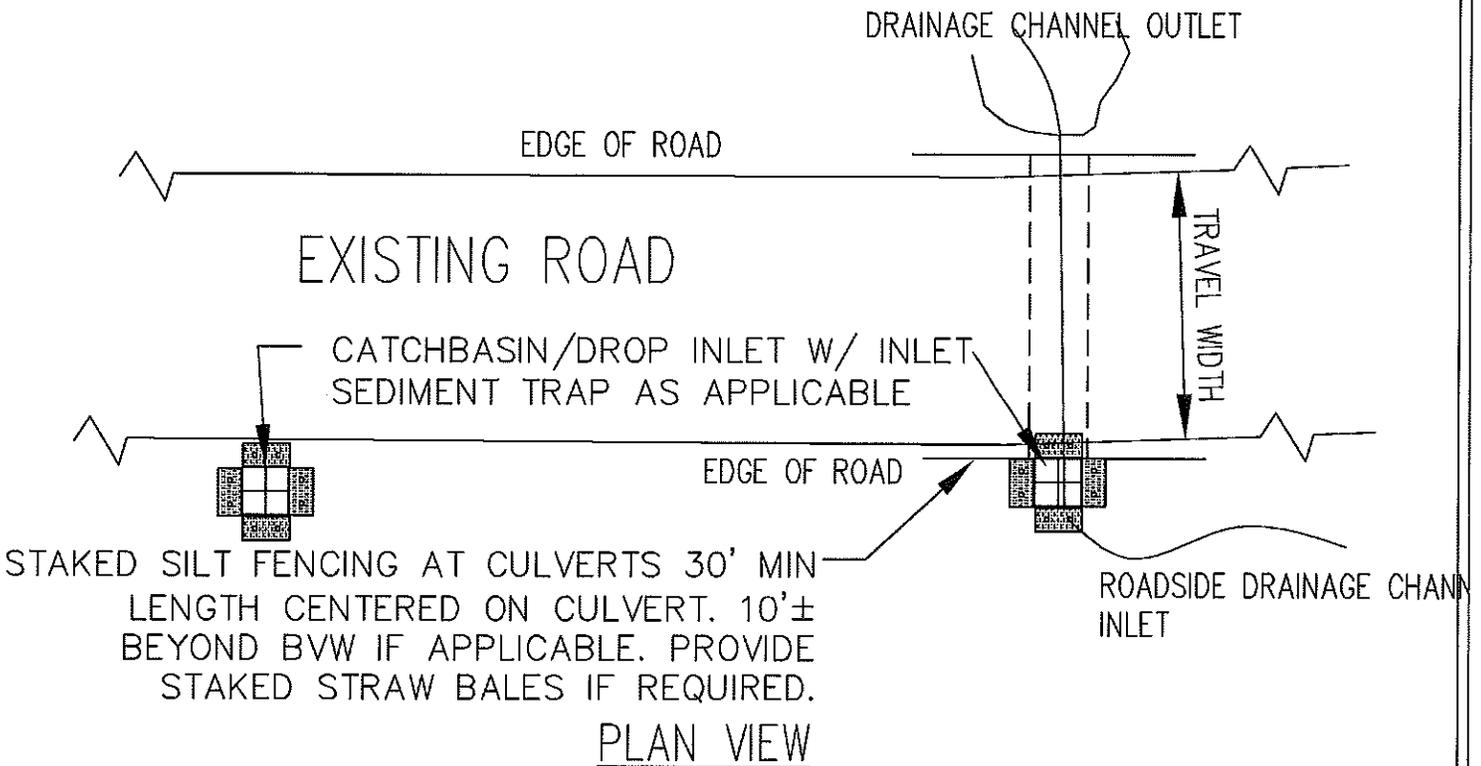
36032A
5/8/97
REV# 1



- LIMITS OF PAVEMENT REPAIR SHALL BE REVIEWED BY HIGHWAY SUPT'D AND APPROVED PRIOR TO START OF ANY WORK BY CONTRACTOR.
- CONTRACTOR TO OBTAIN LOCAL PERMIT PRIOR TO WORK IN TOWN WAY AS APPLICABLE.
- PROVIDE TRAFFIC CONTROLS PER TOWN REQ'MTS.
- WORKMANSHIP & MATERIALS TO CONFORM TO MASSHIGHWAY DEPT. STANDARD SPECIFICATIONS FOR HIGHWAYS & BRIDGES UNLESS OTHERWISE SPECIFIED.
- GRAVEL BASE MATERIALS TO BE COMPACTED TO 95% MAS. DRY DENSITY PER ASTM D1557.
- TRENCHES IN PAVED AREAS TO BE COMPACTED IN MAX. 9" LIFTS TO 95% M.D.D.

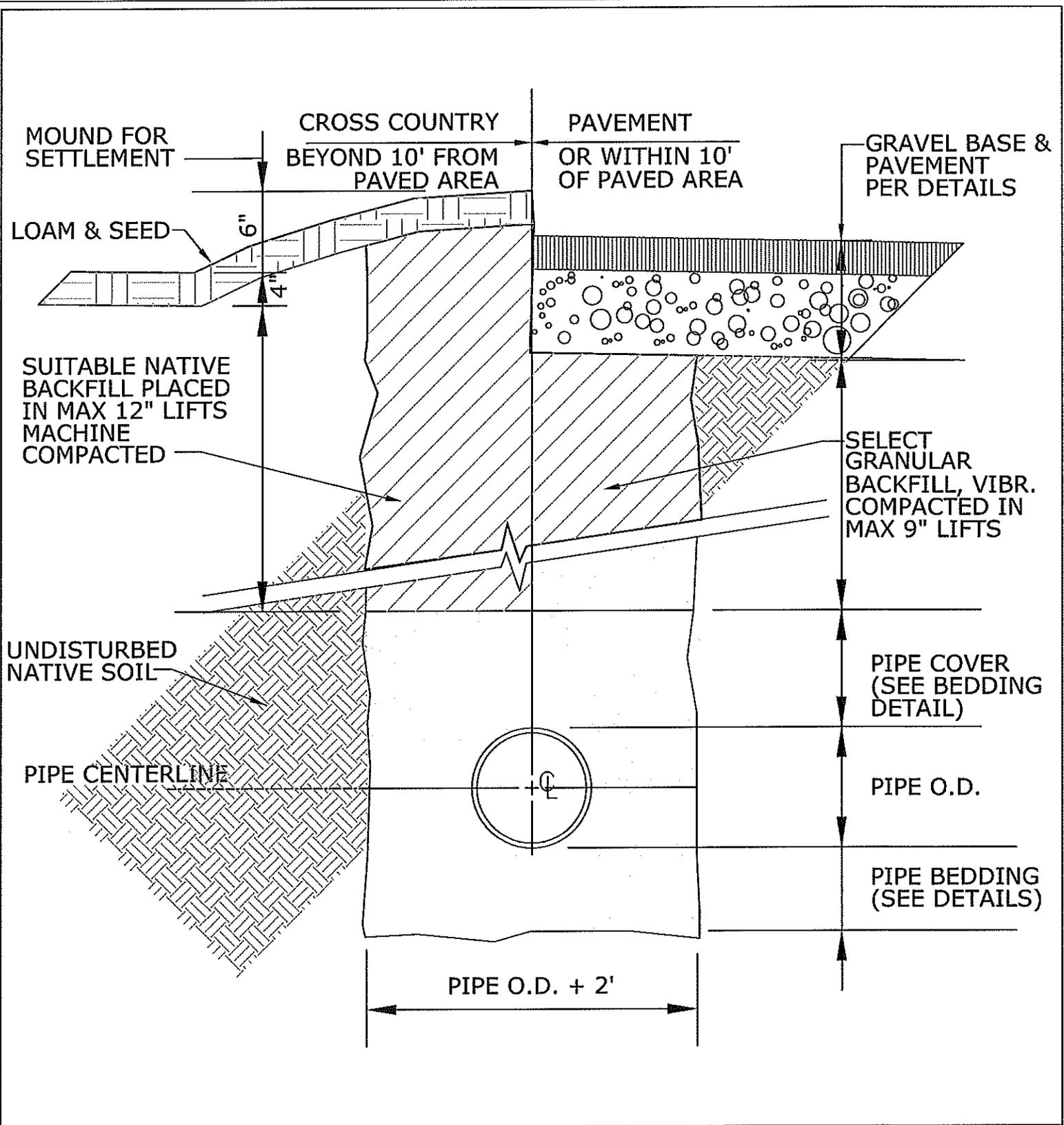
PAVEMENT REPAIR DETAIL

36038A
01/21/02
REV# 1



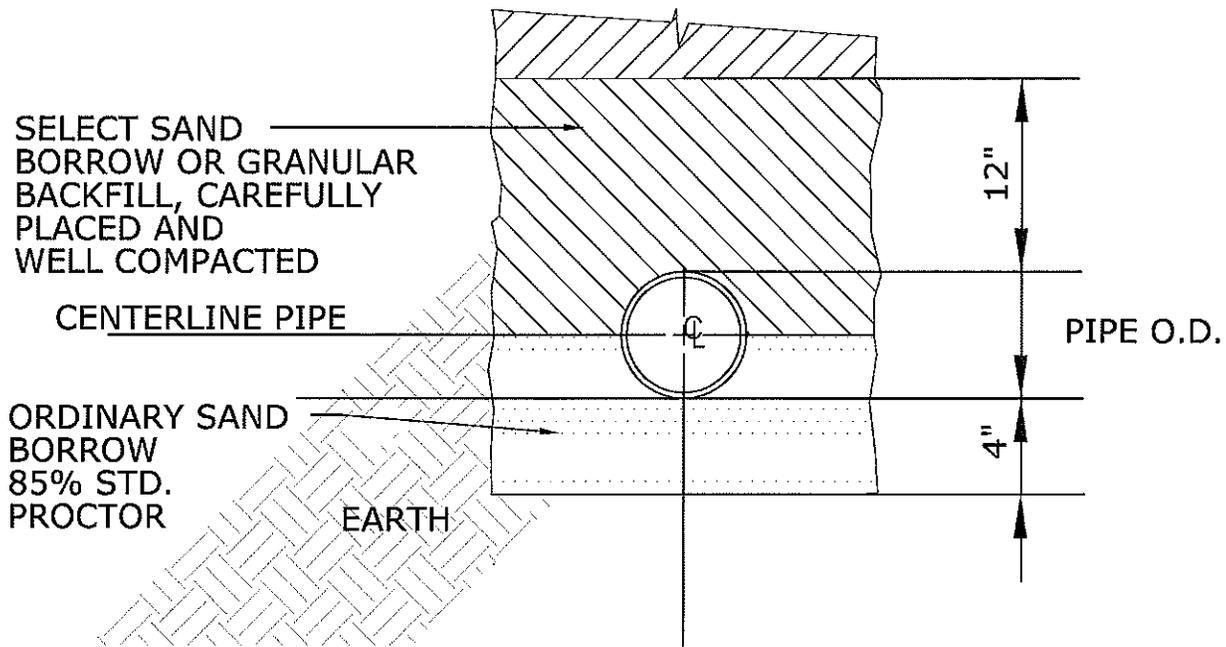
STANDARD DRAINAGE REPLACEMENT

6-4-08
REV#

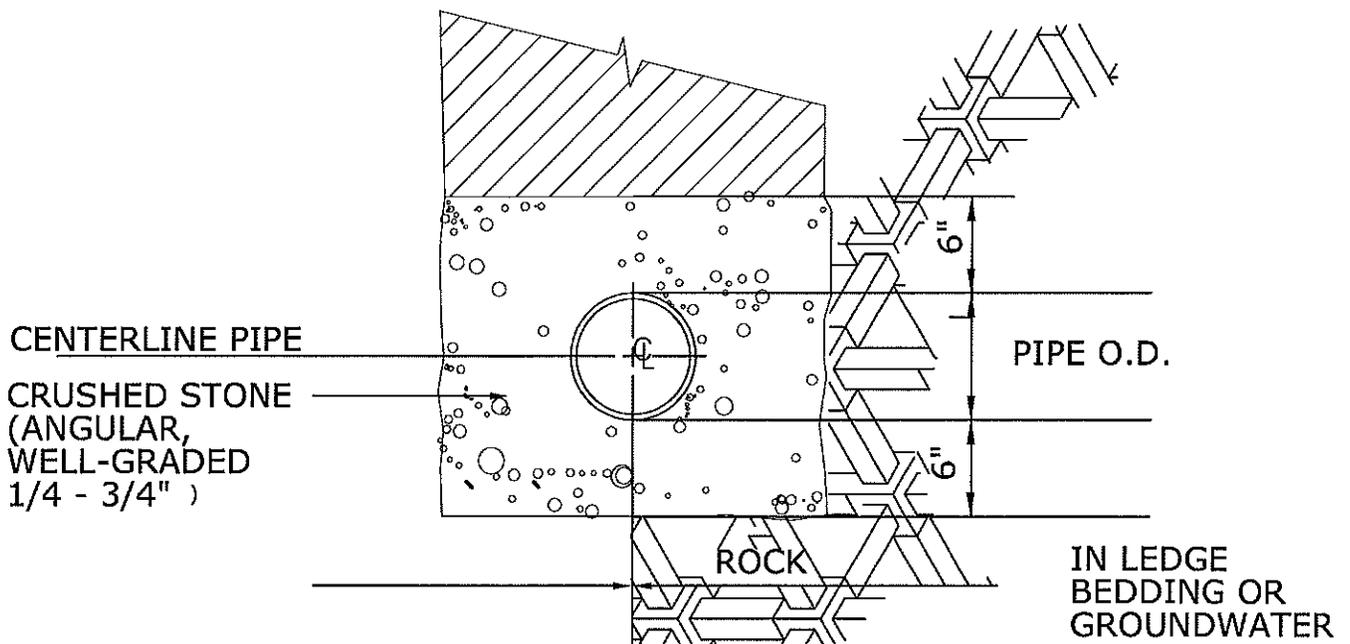


TRENCH CROSS SECTION

34003A
 7/6/93
 REV# 0



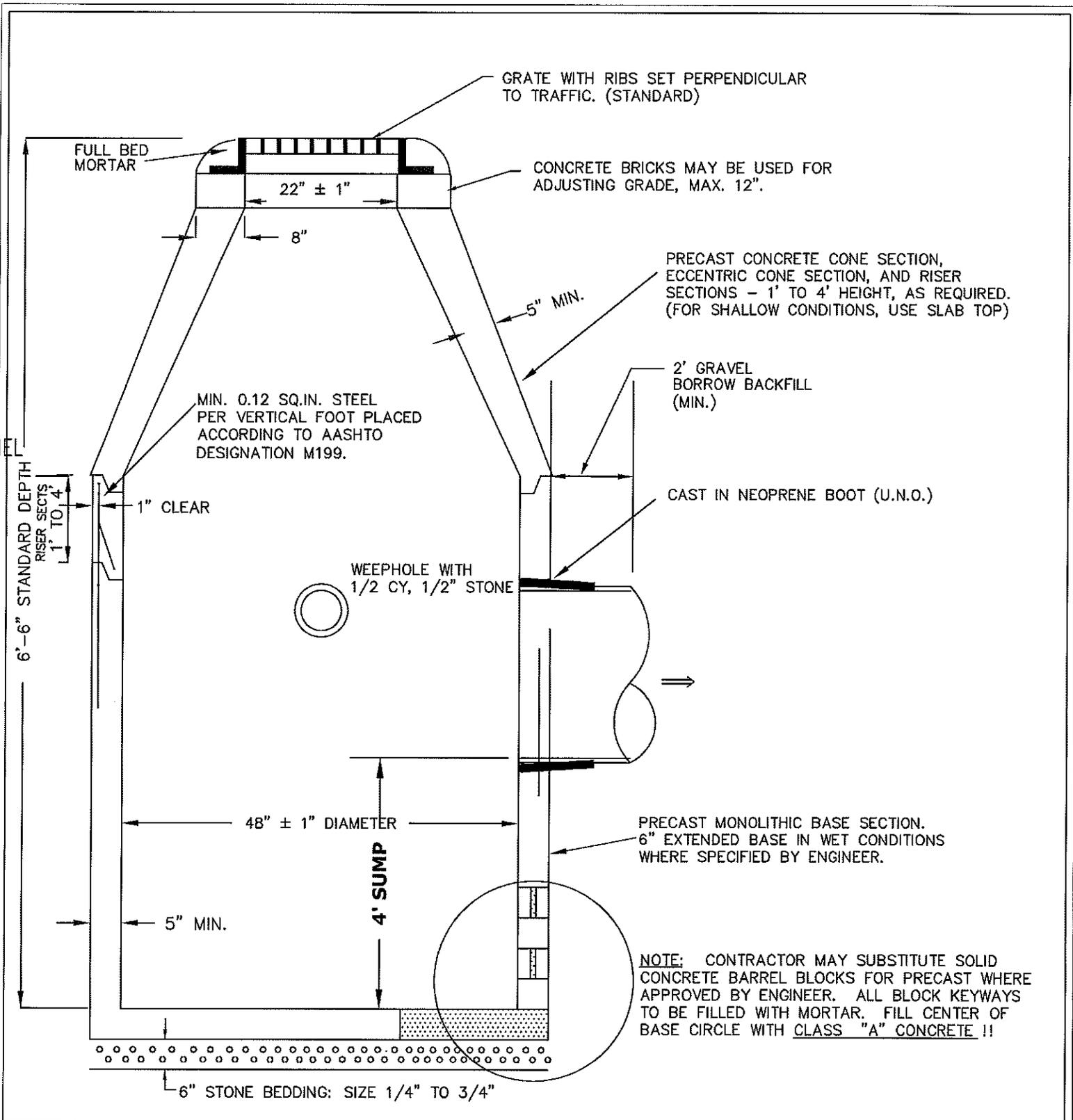
TYPE 1 BEDDING (NORMAL)



TYPE 2 BEDDING (SPECIAL)

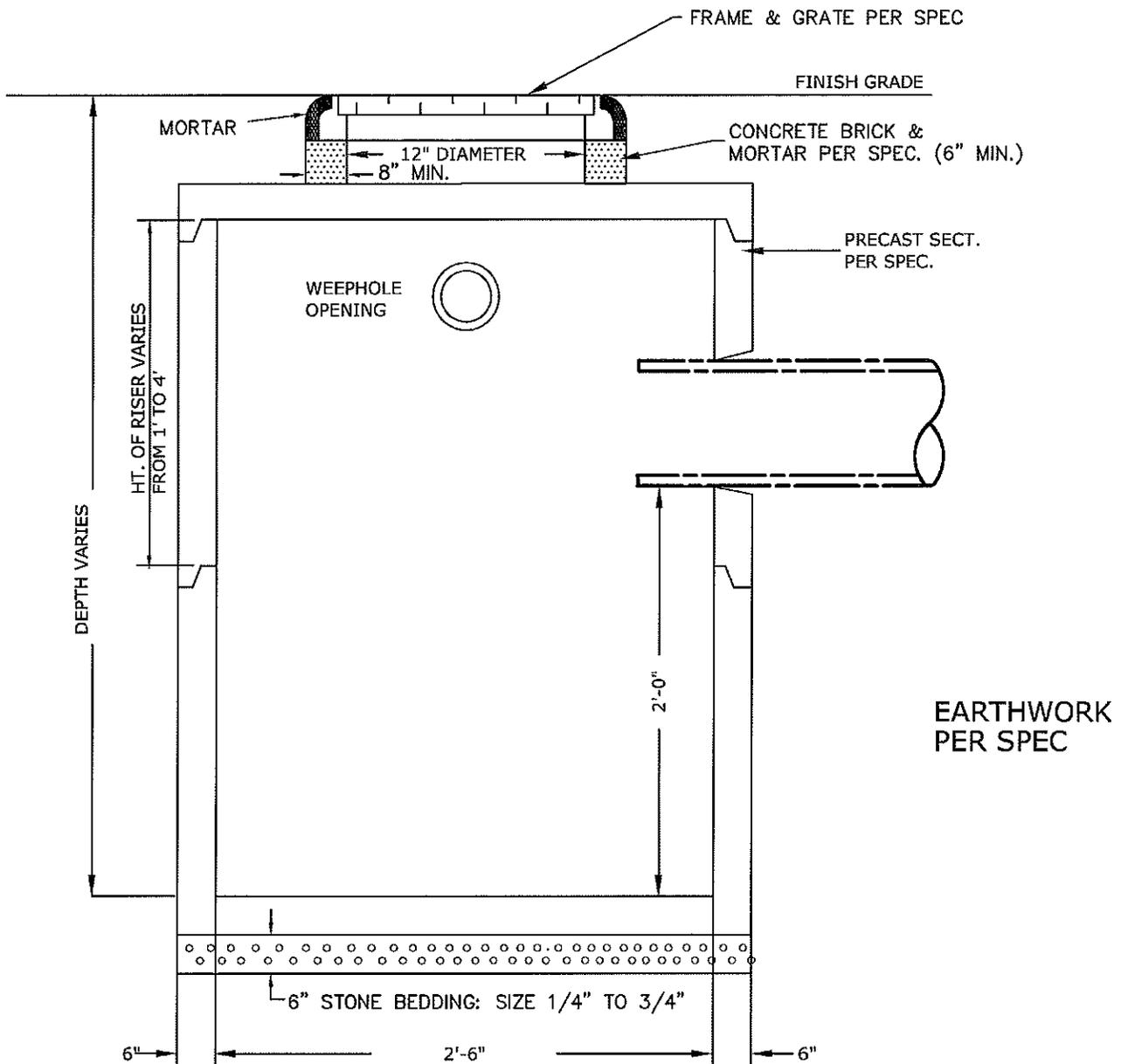
PIPE BEDDING

34004A
1/20/05
REV# 3



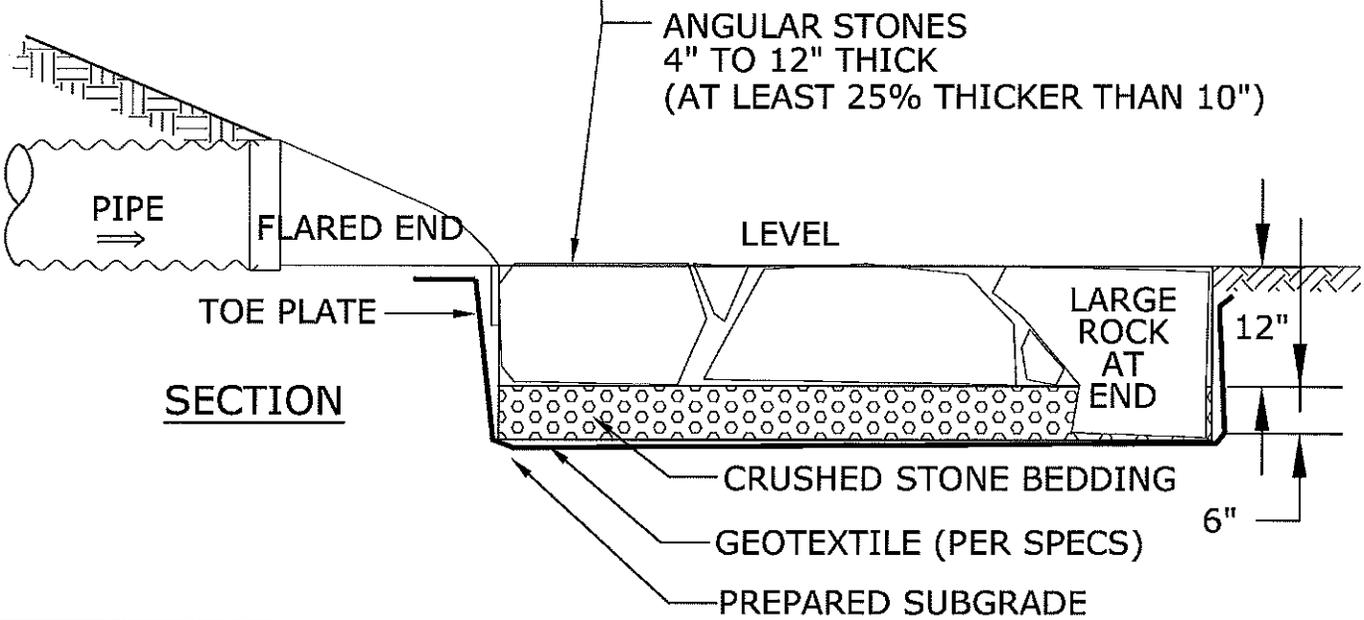
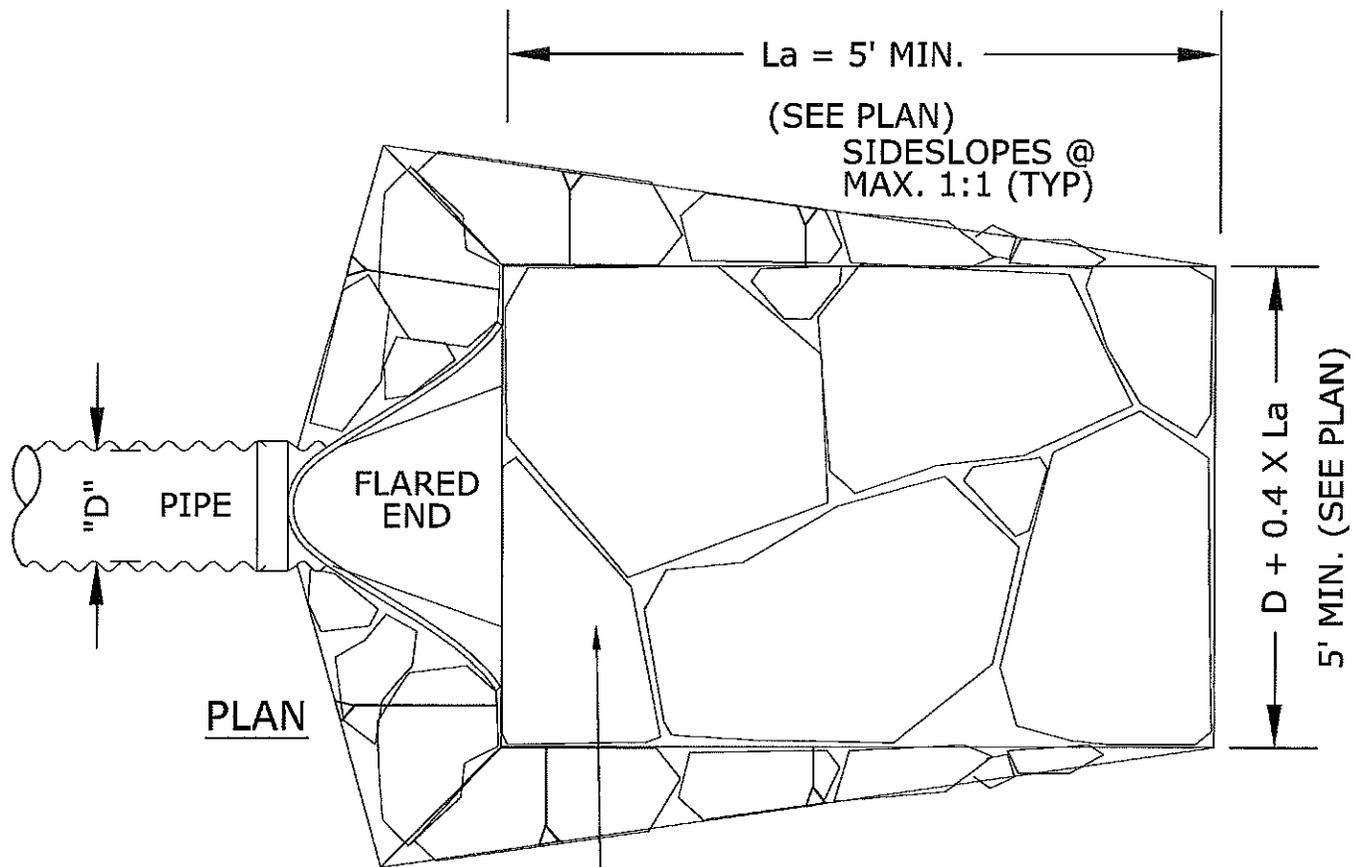
PRECAST CONCRETE CATCH BASIN

32111A
 12/15/93
 REV# 1



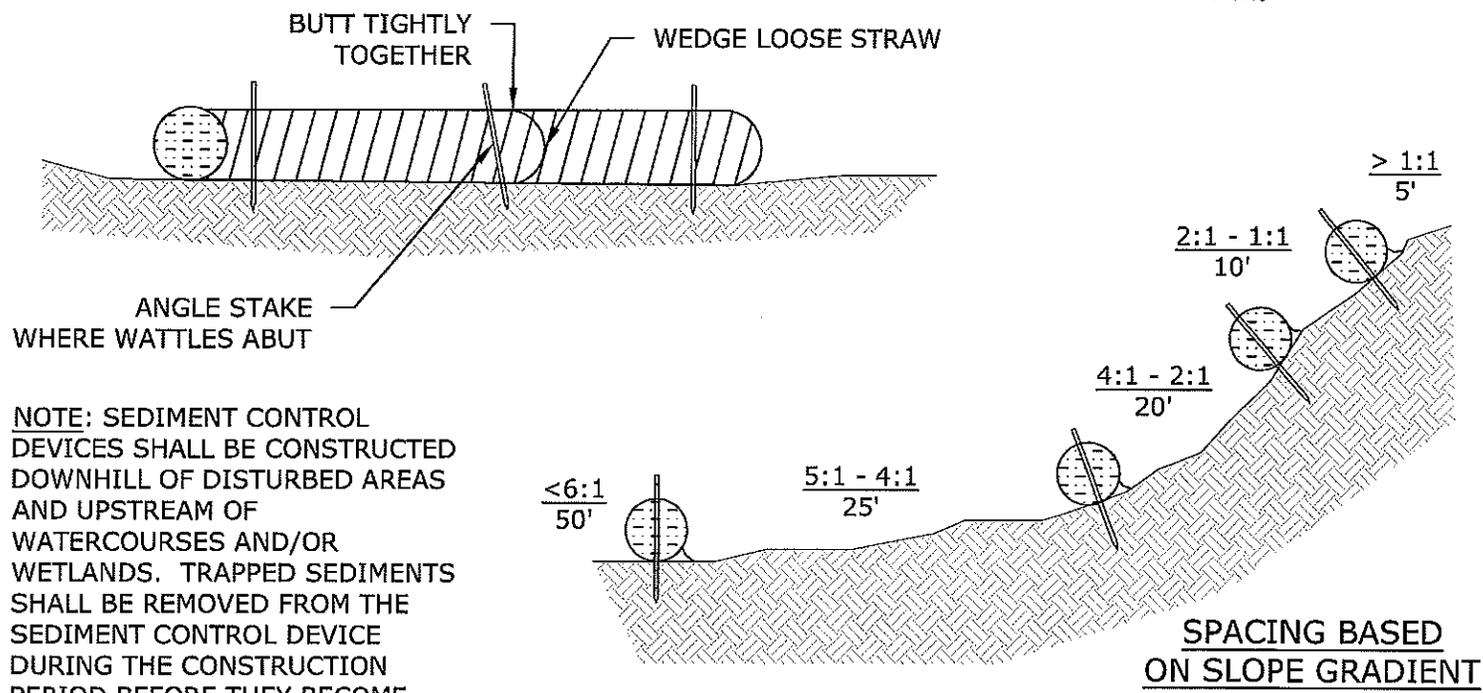
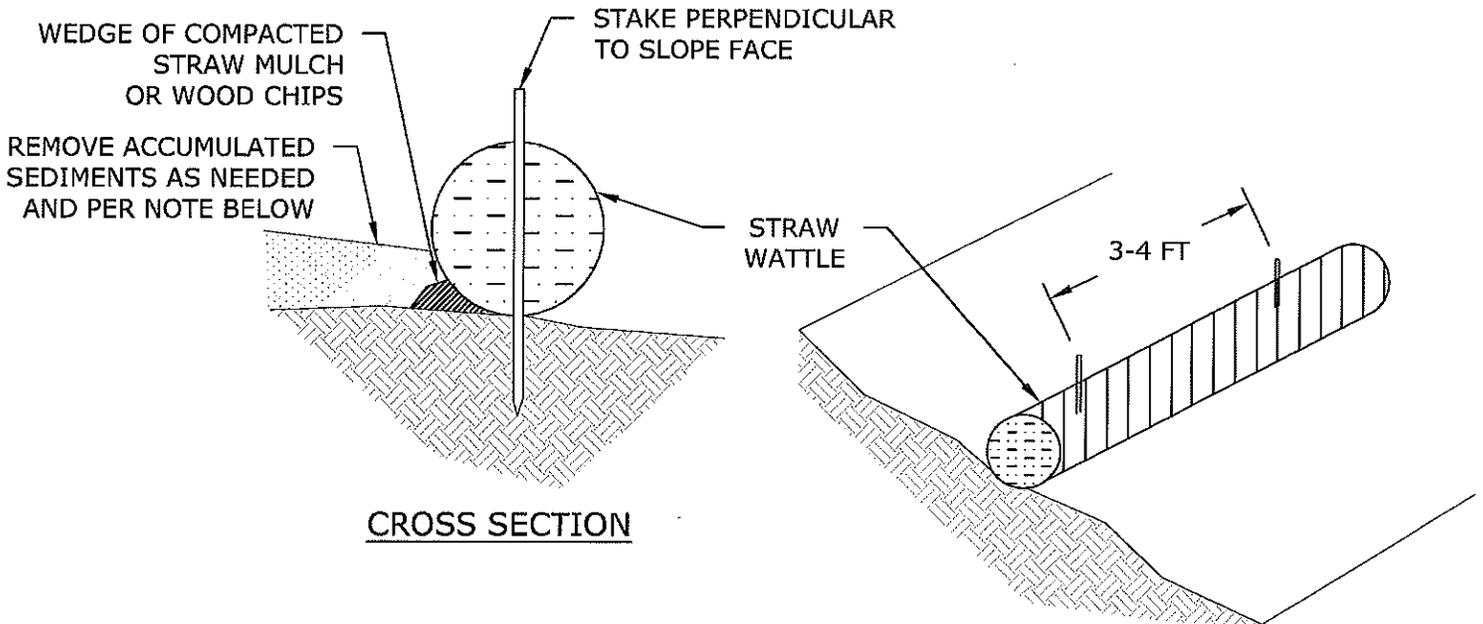
REDUCED SIZE CATCH BASIN

32121B
 4/14/93
 REV# 0



STONE DISCHARGE APRON

32106A
 4/2/93
 REV# 2



NOTE: SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED DOWNHILL OF DISTURBED AREAS AND UPSTREAM OF WATERCOURSES AND/OR WETLANDS. TRAPPED SEDIMENTS SHALL BE REMOVED FROM THE SEDIMENT CONTROL DEVICE DURING THE CONSTRUCTION PERIOD BEFORE THEY BECOME 50% FULL TO PREVENT SEDIMENT FROM BEING TRANSPORTED DOWNHILL. DISPOSE OF SEDIMENTS IN ON-SITE UPLAND DISPOSAL AREAS, PROPERLY GRADED, SEEDED AND MULCHED.

TYPICAL STRAW WATTLE SIZES		
9"x10'	12"x10'	12"x10'
9"x15'	12"x20'	
9"x25'		

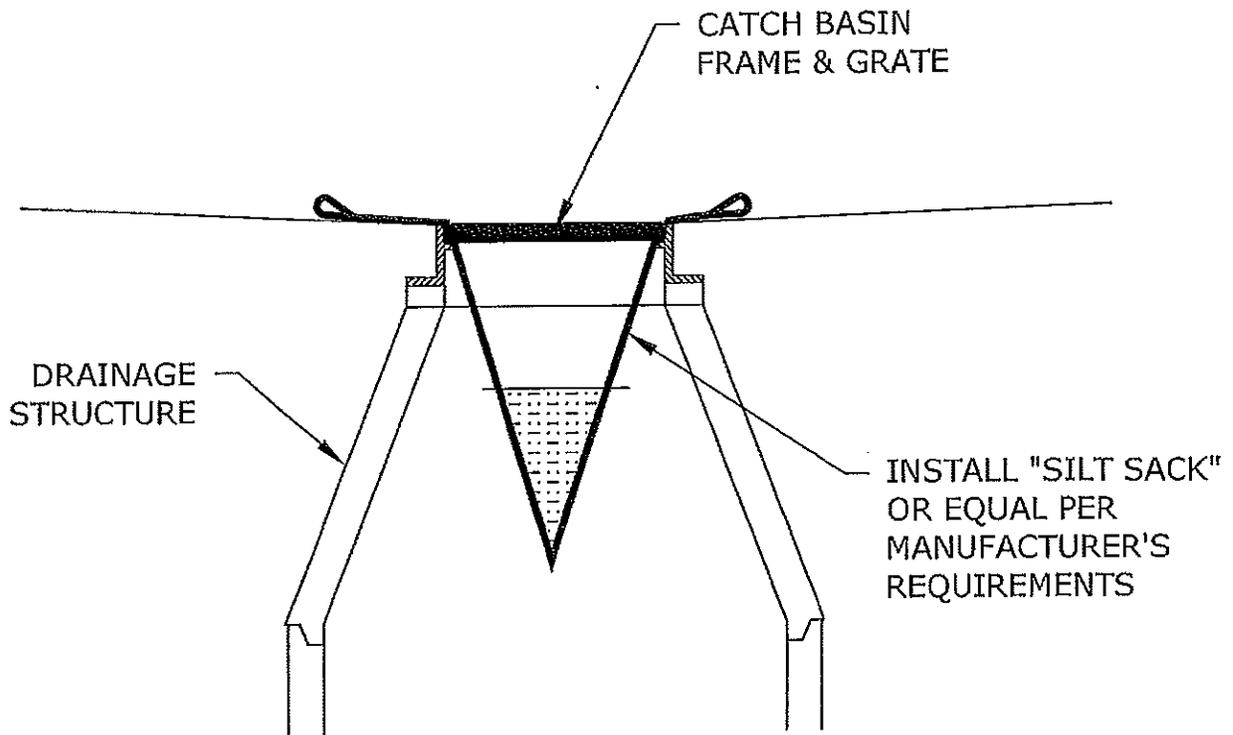
SCB-4

TYPICAL STRAW WATTLE INSTALLATION

REV# 0

NOTES:

- CLEAN OR REPLACE "SILTSACK" AFTER EVERY STORM EVENT, OR BEFORE IT REACHES THE HALFWAY MARK.
- UPON FINAL STABILIZATION OF THE SITE, REMOVE AND DISPOSE OF ALL SILT AND DEBRIS FROM SILT SACK AND FROM CATCH BASIN SUMP.



INLET SEDIMENT TRAP - "SILT SACK"

32708B
11-3-08
REV 0

**BEGIN PAVEMENT OVERLAY
(AVG. 1" HMA SHIM + 1.5"
HMA TOP)
STA 0+00
SAWCUT EXISTING.
MILL TRANSITION**

**HMA APRON.
ASSUME 3' WIDE.
TYPICAL ALL
DRIVES**

**NOTE REGARDING EXISTING DRAINAGE:
ADJUST CATCH BASINS TO GRADES AS
REQUIRED (PAY ITEM).
PRIOR TO CONSTRUCTION CONTRACTOR
SHALL REVIEW VARIOUS DRAINAGE
SYSTEM CONDITIONS WITH TOWN
HIGHWAY DEPARTMENT.
IF REQUIRED, REMODEL STRUCTURE
(PAY ITEM), REPAIR/REBUILD
STRUCTURE WITH BRICK & MORTAR
(PAY ITEM), REMOVE & REPLACE WITH
PRECAST CB, FRAME & GRATE (PAY
ITEM), AND/OR REMOVE & REPLACE
DRAIN WITH NEW 12" MIN. HDPE (PAY
ITEM) PER HIGHWAY DEPARTMENT.**

**END PAVEMENT OVERLAY
BEGIN PAVEMENT RECLAMATION
WITH 2" HMA BASE + 1.5" HMA TOP
STA 11+20±
PROVIDE TRANSITION**

**CAP 370±LF HMA WATERWAY.
ASSUME 4' WIDE. 1" HMA CAP.**

**CAP 450±LF HMA WATERWAY.
ASSUME 2' WIDE. 1" HMA CAP**

**NOTE REGARDING EXISTING
HMA WATERWAYS:
TOWN TO CLEAN BRUSH &
DEBRIS PRIOR TO
CONSTRUCTION. CONTRACTOR
SHALL PERFORM FINAL
CLEANING PRIOR TO TACK
COAT & OVERLAY**

GENERAL NOTES ABOUT COMPILED SITE PLAN BASE MAP:

The site plan base map is compiled from available sources and is not the result of a recent field survey. Compiled information includes MassGIS (Office of Geographic and Environmental Information, Commonwealth of Massachusetts). All compiled information is approximate only and is subject to field verification and change. The locations and information about underground pipes, utilities or other structures are compiled from available record data and visible field evidence and are not represented as being exact or complete. Prior to beginning excavation, the excavator shall give adequate advance notice to the Dig Safe Center, the municipal and/or state Public Works Department, and private utility companies, to allow for field location of facilities in the vicinity. If Contractor observes any field conditions which vary significantly from what is shown on these plans, the contractor shall immediately notify the Owner and Engineer for resolution of the conflicting information. The Contractor shall record tie measurements, depths, dimensions, materials, field conditions and other pertinent data about all underground pipes, utilities and structures encountered during the work, both existing and constructed. Contractor shall submit Record drawings with this information to the Owner and Engineer prior to completion of the work. Contractor shall immediately report any damage to existing pipes, utilities, or structures to the Owner and Engineer, and obtain directions as to repair, replacement or abandonment.

NO.	DATE	REVISION/ISSUE	BY
5-30-18		ISSUE FOR BID ONLY	MAL

SHEET TITLE COMPILED PLAN SHEET 1		PROJECT NO. E2617
PROJECT TITLE BALDWIN HILL ROAD SOUTH PAVING & RELATED WORK BALDWIN HILL ROAD SOUTH EGREMONT, MA		SCALE 1"=200'
FORESIGHT LAND SERVICES		DATE 3/13/18
ENGINEERING SURVEYING PLANNING		DESIGNED BY MAL
FORESIGHT LAND SERVICES, INC. 1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201 TEL: (413) 499-1560 FAX: (413) 499-3307 WWW.FORESIGHTLAND.COM		DRAWN BY MAL
SHEET NO. C-1		CHECKED BY
OF SHEETS		FILE NO. E2617/Compiled

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REMOVE & REPLACE CULVERT WITH 50±LF 12" HDPE & FLARED END SECTION. REMOVE & REPLACE INLET HEADWALL WITH CATCH BASIN DROP INLET TYPE DF

PROTECT CULVERT TO REMAIN

END PAVEMENT RECLAMATION WITH 2" BASE + 1.5" TOP START PAVEMENT SHIM & OVERLAY (AVG. 1" HMA SHIM + 1.5" HMA TOP) STA 43+30± PROVIDE TRANSITION

ADJ CB WITH 20±LF HMA WATERWAY. ASSUME 3' WIDE. 1" HMA CAP

CAP 20±LF HMA WATERWAY. ASSUME 3' WIDE. 1" HMA CAP

ADJ CB WITH 20±LF HMA WATERWAY. ASSUME 3' WIDE. 1" HMA CAP

ADJ CB

REMOVE & REPLACE CULVERT WITH 40±LF 12" HDPE, FLARED END SECTION & CATCH BASIN (REDUCED SIZE). VERIFY LEDGE CONDITIONS & WATER MAIN LOCATION/DEPTH PRIOR TO ORDERING

END SHIM & OVERLAY STA 50+30± SAWCUT & PROVIDE TRANSITION

NO.	DATE	REVISION/ISSUE	BY
5-30-18		ISSUE FOR BID ONLY	MAL

SHEET TITLE	PROJECT NO.
COMPILED PLAN SHEET 2	E2617
PROJECT TITLE	SCALE
BALDWIN HILL ROAD SOUTH PAVING & RELATED WORK BALDWIN HILL ROAD SOUTH EGREMONT, MA	1"=200'
	DATE
	3/13/18
	DESIGNED BY
	MAL
	DRAWN BY
	MAL
	CHECKED BY

FORESIGHT LAND SERVICES  **ENGINEERING SURVEYING PLANNING**

FORESIGHT LAND SERVICES, INC.
1496 WEST HOUSATONIC STREET - PITTSFIELD, MA 01201
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SHEET NO.
C-2
OF SHEETS
CADFILE NO.
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